

1-1-2008

# Course Catalog 2008-2009

CSUSB

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Welcome to Cal State San Bernardino.

Our campus, built on nearly 441 acres, lies in the shadow of the beautiful San Bernardino Mountains. In the last several years, we've added apartment-style housing for 1,100 additional students, a Social and Behavioral Sciences building, a Chemical Sciences building, and a state of the art technology infrastructure with nearly 200 smart classrooms, as well as labs and other facilities. We've also doubled the size of our student union and added a new 35,000 square foot student recreation and fitness center, which contains everything from exercise equipment to a climbing wall. We're also constructing a new Education building and a Health Science facility on our Palm Desert Campus.

While we continue to expand our services and facilities, you'll still find small classes - held during the day and evening when you need them - and an exceptional and diverse faculty dedicated to students.

You'll also discover an environment that encourages personal and intellectual development, through a broad array of organizations, and an equally rich assortment of athletic, cultural, musical, social and theatrical events. To complement all that, you'll find a setting that offers wonderful weather, an extraordinary variety of cultural resources, nearby mountains, beaches and deserts, and a campus rated by students as the most beautiful in the Cal State University System of 23 campuses.

With a 50 percent increase in freshman applications in the past few years, CSUSB is increasingly attractive to new students. If you also think Cal State San Bernardino may be the place for you, I invite you to visit our beautiful campus and meet some of our outstanding faculty, staff and students.

We'll be pleased to provide any additional information you may need. Please visit Cal State San Bernardino's Web site at [www.csusb.edu](http://www.csusb.edu) and our university news site at <http://news.csusb.edu>.

And if you decide to attend Cal State, I look forward to meeting you!

Sincerely,

*Albert K. Karnig*  
President



# Four-Year Graduation Pledge Program

California State University, San Bernardino is committed to assisting students in reaching their goal of a baccalaureate degree in the shortest time possible. With careful planning a student can graduate in four years. The campus has consistently worked to plan an academic schedule and degree requirements which can be taken by students willing to devote their time and energy to full-time enrollment and study. Many students have found it possible to graduate in four years (12 quarters) of full-time study. We believe well-qualified, hard working students who have met all entrance requirements upon graduation from high school should set as their goal the completion of an undergraduate program without loss of time. We are prepared to help students reach this goal.

Full-time enrollment and involvement in campus life and activities will make the years at Cal State stimulating, engaging and rewarding. A healthy balance of study, work and leisure is critical to academic success. The careful integration of classroom study, out-of-class discussions with faculty and friends, library investigation, laboratory research, practical application of skills in jobs and field work, and involvement in co-curricular clubs and activities is essential to ensuring that knowledge attained at the university results in fully qualified graduates who can use the critical skills, facts, competencies, and achievements of the college years for active citizenship, productive, useful employment, and life-long learning.

## Who is Eligible?

All entering freshmen with a declared major, and concentration if applicable, who are willing to take 45-47 or more units a year, who enter without basic skills deficiencies and meet all entrance requirements for the major are eligible. Students must average 15 units per quarter to reach the minimum of 180 units required for the Bachelor of Arts degree. It should be noted that the Bachelor of Science degree requires 198 units. Completion of the B.S. degree in four years will require a higher unit load in most quarters or enrollment in summer sessions.

## What is the University's Pledge?

- Cal State San Bernardino pledges to provide sufficient classes for Four-Year Degree Pledge Program students so they will be able to graduate in four years. All Four-Year Degree Pledge students will receive special advisement and first priority during course registration each quarter. Incoming freshmen and participants who continue to meet the eligibility criteria will receive the highest priority in course registration and must register during the priority time assigned.
- Students will receive a Degree Audit Summary (PAWS) each quarter to allow them to track their progress and to clearly outline remaining units and course requirements. PAWS is available on-line.
- Departments will provide a tentative two-year schedule of course offerings to allow students to plan their enrollments and sequence of courses in advance. Every effort will be made to sequence course offerings to allow students to take required courses either day or night; however, it should be noted that a full load of 15-16 units normally cannot be taken after 6:00 p.m. and is not advisable if students are working more than 20 hours a week.
- If there are course conflicts which prevent students from taking courses on schedule, the appropriate course substitutions, waivers or options in the major will be provided by the department chair or for General Education by the Dean of Undergraduate Studies.

## What is the Student's Obligation?

- Sign the Four-Year Degree Pledge form prior to the first term of enrollment.
- Take all qualifying exams and diagnostic/placement tests in English (EPT), mathematics (ELM), foreign language placement, music auditions, portfolio reviews, etc. before registering for the first term. All deficiencies or remedial course work must be made up before the first term of courses.
- Enroll each quarter at the assigned on-line registration time. Students enrolling late cannot be assured of getting courses needed.
- Take a minimum of 15-16 units per quarter. Those considering enrolling in the Four-Year Degree Pledge Program should understand that for every unit of credit about 3 hours of instruction and study is required. A program of 15 units will require a minimum of 45 hours of class and study per week. Students with family obligations, long commutes or work schedules requiring more than 20 hours a week of commitment will find 15 units of university study a difficult if not impossible assignment.
- Make satisfactory progress, maintain a "C" average each quarter, and receive grades sufficient to allow registration into the next level of required courses.
- Meet each quarter with the assigned advisor, reach agreement regarding an appropriate course of study, and have the class schedule approved by the advisor and/or Advising and Academic Services before registering. At advisement, students and advisors will consider the future term's course offerings as related to graduation requirements. Pre-Psychology and Pre-Nursing students must be accepted into their major according to the department's established schedule.
- Take courses at times (day or evening) when they are offered and/or available and in correct sequence. Note: Students who change their major or concentration or who take a leave of absence will not necessarily be able to graduate in four years.
- Demonstrate accountability by complying with all administrative and academic policies and procedures. Non-compliance will result in cancellation of the pledge agreement. Students should purchase a copy of the *University Bulletin* which contains all degree requirements and policies.

After four academic years of full-time enrollment, if it is determined that required courses were not made available, the student will not be required to pay tuition or fees otherwise required for the student to subsequently register and enroll in courses necessary for graduation. This is the sole remedy for the university's breach of the degree pledge program.

For more information and to determine eligibility to sign the pledge, contact Advising and Academic Services, University Hall, Room 380, (909) 537-5034.

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This catalog represents the university's course descriptions and requirements at the undergraduate and graduate levels. California State University, San Bernardino reserves the right to revise catalog provisions in accordance with official actions of the Board of Trustees of the California State University and other governing bodies. Students are advised to consult the appropriate department, college or office for current information for specific programs. (Also see Changes in Rules and Policies statement on Page 537.) Supplementary bulletins contain additional information about extended learning. The *Class Schedule*, issued prior to each quarter, lists courses to be offered during that term. The *2008-2009 Bulletin, Catalog of Programs*, may be purchased at the Coyote Bookstore, California State University, San Bernardino, 5500 University Parkway, San Bernardino, CA 92407-2397. [www.coyotebooks.com](http://www.coyotebooks.com)

Inquiries about admission to the university should be directed to:  
 Director of Admissions and Student Recruitment  
 California State University, San Bernardino  
 5500 University Parkway  
 San Bernardino, CA 92407-2397  
 (909) 537-5200  
<http://www.csusb.edu>

## BULLETIN

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 Alameda, CA 94501  
 (510) 748-9001

# CALENDAR

## 2008-2009

### FALL TERM 2008

May 1	Last day to file or refile graduation check for March 2009 graduation without payment of late fee
May 20- June 11	Fall Quarter 2008 Priority Registration begins
Sept. 9	Admission Day, university open (observed Dec. 29)
Sept. 17	Beginning of academic year
Sept. 25	Classes begin (Saturday classes begin Sept. 27)
Oct. 1	Last day to add classes via My Coyote Self-Service
Oct. 13	Columbus Day, university open (observed Dec. 31)
Oct. 15	CENSUS: Last day to drop classes without record
Nov. 3	Last day to file or refile graduation check for June 2009 graduation without payment of late fee
Nov. 3-26	Winter Quarter 2009 Priority Registration begins
Nov. 11	Veteran's Day, university closed
Nov. 27-29	Thanksgiving recess, university closed (Library open Nov. 29 and 30)
Dec. 8	Last day of classes (Saturday classes end Dec. 6)
Dec. 9-13	Final examinations
Dec. 13	Commencement
Dec. 16	Grades due; end of term
Dec. 25- Jan. 1	Academic recess, campus closed (campus closes at noon on Dec. 24)

### WINTER TERM 2009

Jan. 5	Last day to file or refile graduation check for September 2009 graduation without payment of late fee
Jan. 12	Classes begin (Saturday classes begin Jan. 10)
Jan. 16	Last day to add classes via My Coyote Self-Service
Jan. 17-19	Martin Luther King, Jr. birthday, university closed
Feb. 2	CENSUS: Last day to drop classes without record
Feb. 2	Last day to file or refile graduation check for December 2009 graduation without payment of late fee
Feb. 12	Lincoln's Birthday, campus open (observed Dec. 28)
Feb. 16- Mar. 6	Spring Quarter 2009 Priority Registration begins
Feb. 23	Washington's Birthday, campus open (observed Dec. 29)
March 23	Last day of classes (Saturday classes end March 21)
March 24-28	Final examinations
April 1	Grades due; end of term
March 30- April 3	Academic recess

### SPRING TERM 2009

March 31	Cesar Chavez Holiday, university closed
April 6	Classes begin (Saturday classes begin April 4)
April 10	Last day to add classes via My Coyote Self-Service
April 24	CENSUS: Last day to drop classes without record
April 27- May 13	Summer Quarter 2009 Priority Registration begins
May 1	Last day to file or refile graduation check for March 2010 graduation without payment of late fee
May 19- June 10	Fall Quarter 2009 Priority Registration begins
May 23-25	Memorial Day (university closed) (Library open May 23 and 24)
June 15	Last day of classes (Saturday classes end June 13)
June 16-20	Final examinations
June 19-21	Commencement
June 23	Grades due; end of term

### SUMMER TERM 2009

June 23	Last day for full refund, Sessions Regular and SW1
June 24	Classes begin, Sessions Regular and SW1
June 22- Sept. 4	Campus closed each Friday, Saturday, and Sunday
July 2	CENSUS: 6W1 last day to drop classes without record
July 3	Independence Day Holiday (campus closed)
July 14	CENSUS: Last day to drop classes without record, Session Regular
July 28	Last day of classes, Session 6W1
July 29-30	Final examinations, Session 6W1
July 30	Last day for refund, Session 6W2
Aug. 3	Classes begin, Session 6W2
Aug. 11	CENSUS: Last to drop classes without record, Session 6W2
Sept. 1	Last day of classes, Session Regular
Sept. 2-3	Final examinations, Session Regular
Sept. 3	Last day of classes, Session 6W2
Sept. 7	Labor Day, campus closed
Sept. 8-9	Final examinations, Session 6W2
Sept. 9	Admission Day, campus open (observed Dec. 30)

### FALL TERM 2009

May 1	Last day to file or refile graduation check for March 2010 graduation without payment of late fee
Sept. 16	Beginning of academic year
Sept. 24	Classes begin (Saturday classes begin Sept. 26)
Oct. 12	Columbus Day, campus open (observed Dec. 31)
Oct. 14	CENSUS: Last day to drop classes without record
Nov. 2	Last day to file or refile graduation check for June 2010 graduation without payment of late fee
Nov. 2-24	Winter Quarter 2010 Priority Registration begins
Nov. 11	Veteran's Day, university closed
Nov. 26-29	Thanksgiving recess (Library open Nov. 27-29)
Dec. 7	Last day of classes (Saturday classes end Dec. 5)
Dec. 8-12	Final examinations
Dec. 12	Commencement
Dec. 15	Grades due; end of term
Dec. 25- Jan. 1	Academic recess, university closed (campus closes at noon on Dec. 24)

For further information and any calendar updates refer to:  
<http://acs.csusb.edu/sched/>

For a more detailed calendar of academic dates and deadlines, see the quarterly *Class Schedule*. The above calendar is not intended to be construed as an employee work calendar.

# THE CALIFORNIA STATE UNIVERSITY SYSTEM

The individual California State Colleges were brought together as a system by the Donahoe Higher Education Act of 1960. In 1972 the system became the California State University and Colleges and in 1982 the system became the California State University. Today the campuses of the CSU include comprehensive and polytechnic universities and, since July 1995, the California Maritime Academy, a specialized campus.

The oldest campus—San José State University—was founded in 1857 and became the first institution of public higher education in California. The CSU Channel Islands opened in fall 2002, with freshmen arriving in fall 2003.

Responsibility for the California State University is vested in the Board of Trustees whose members are appointed by the governor. The trustees appoint the chancellor, who is the chief executive officer of the system, and the presidents, who are the chief executive officers of the respective campuses.

The Trustees, the Chancellor and the Presidents develop systemwide policy, with implementation at the campus level taking place through broadly based consultative procedures. The Academic Senate of the California State University, made up of elected representatives of the faculty from each campus, recommends academic policy to the Board of Trustees through the chancellor.

Academic excellence has been achieved by the California State University through a distinguished faculty, whose primary responsibility is superior teaching. While each campus in the system has its own unique geographic and curricular character, all campuses, as multipurpose institutions, offer undergraduate and graduate instruction for professional and occupational goals as well as broad liberal education. All of the campuses require for graduation a basic program of "general education requirements" regardless of the type of bachelor's degree or major field selected by the student.

The CSU offers more than 1,800 bachelor's and master's degree programs in some 240 subject areas. Many of these programs are offered so that students can complete all upper-division and graduate requirements by part-time, late afternoon and evening study, or by distance learning from home or work via computer or television. In addition, a variety of teaching and school service credential programs are available. A limited number of doctoral degrees are offered jointly with the University of California and with private institutions in California. In 2005, the CSU was authorized to independently offer educational doctorate (Ed.D.) programs, and seven CSU campuses launched their Ed.D. programs in Fall, 2007.

Enrollments in fall 2005 totalled 417,000 students, who were taught by some 23,000 faculty. The system awards about half of the bachelor's degrees and a third of the master's degrees granted in California. Nearly 2.5 million persons have been graduated from CSU campuses since 1961.

## TRUSTEES OF THE CALIFORNIA STATE UNIVERSITY

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State Capitol, Sacramento 95814

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Lieutenant Governor of California  
State Capitol, Sacramento 95814

The Honorable Fabian Núñez  
Speaker of the Assembly  
State Capitol, Sacramento 95814

The Honorable Jack O'Connell  
State Superintendent of Public Instruction  
721 Capitol Mall, Sacramento 95814

Dr. Charles B. Reed  
Chancellor of the California State University  
401 Golden Shore, Long Beach 90802-4210

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Appointments are for a term of eight years, except student, alumni, and faculty trustees whose terms are for two years. Terms expire in the year in parentheses.

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### Correspondence with Trustees should be sent to:

c/o Trustees Secretariat  
The California State University  
401 Golden Shore  
Long Beach, CA 90802-4210

### OFFICE OF THE CHANCELLOR

The California State University  
401 Golden Shore  
Long Beach, CA 90802-4210  
(562) 951-4000

[www.calstate.edu](http://www.calstate.edu)

Dr. Charles B. Reed, Chancellor, CSU System  
Dr. Gary Reichard, Executive Vice Chancellor and  
Chief Academic Officer  
Mr. Richard P. West, Executive Vice Chancellor and  
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Ms. Gail Brooks, Interim Vice Chancellor, Human Resources  
Ms. Christine Helwick, General Counsel  
Dr. Keith Boyum, Associate Vice Chancellor, Academic Affairs

# QUICK REFERENCE

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## What

## Who

## Where

Academic Clubs	Department Offices		
ADA Complaints	Dale West (Human Resources)	SH-110	(909) 53-75138
Adult Re-Entry Program	Adult ReEntry Center	SU-130	75253
Advising (Undeclared major)	Advising and Academic Services/SAIL (x5921)	UH-380/UH-386	75034
Advising (Declared major)	Department Offices and SAIL		
Appeal of Graduate & Post-Bac Degree Requirement	Appropriate Graduate Coordinator		
Appeal of Undergraduate Degree Requirement	Academic Programs	AD-101	75024
Appeal of University Regulations	Academic Programs	AD-101	75024
Athletics Events	Athletics Department	HP-112	73001
Basic Skills (EPT/ELM)	Advising and Academic Services	UH-380	75034
Clubs and Student Activities	Student Leadership and Development	SU-203	75234
Career Workshops	Career Development Center	UH-329	75250
Changing Majors	Records, Registration and Evaluation	UH-171	75200
Commencement	Academic Affairs Office	AD-101	77050
Complaints Against Faculty	Department Chair or College Dean		
Computer Assisted Instruction	Learning Center	UH-351	75038
Concurrent Enrollment	Records, Registration and Evaluation	UH-171	75200
Coyote ONE CARD	Academic Computing and Media	PL-003	75060
Discrimination Complaints	Student Affairs Office	UH-231	75185
Dropping/Adding Courses after Census (Declared)	College of Major		
Dropping/Adding Courses after Census (Undeclared)	Advising and Academic Services	UH-380	75034
E-Mail	Telecommunications and Network Services	PL-028	77278
Educational Opportunity Program (EOP)	EOP Office	UH-395	75042
Financial Aid	Financial Aid Office	UH-150	75221
Grade/Academic Grievance	Associate Dean, Undergraduate Studies	AD-183	75044
Graduate School Information	Graduate Studies Office	AD-127	75058
Graduation Requirement Check	Records, Registration and Evaluation	UH-171	75219
Greek Life	Student Leadership and Development	SU-203	75234
Grievance (non-academic)	Student Affairs Office	UH-231	75185
Health Services	Health Center	HC-135	75241
Housing (On-campus)	Housing and Residential Live	University Village	473-7800
Immigration Questions	International Center	UH-235	75197
Leave of Absence	Advising and Academic Services	UH-380	75034
Media Services	Academic Computing and Media	PL-003	75060
Non-Academic Grievance	Vice President, Student Affairs Office	UH-231	75185
Off-Campus/On-Line/TV Courses	Office of Distributed Learning	PL-254	77439
Open University Enrollment	Extended Learning	SH-134	75975
Overload Petition: Undergraduate	College Dean/Department Chair		
Overload Petition: Graduate	Appropriate Graduate Coordinator		
Psychological Counseling	Counseling Center	HC-136	75040
Registration Help Desk	Records, Registration and Evaluation	UH-171	77671
Retroactive Withdrawal	Advising and Academic Services	UH-380	75034
SAIL (Student Assistance in Learning)	SAIL Office	UH-386	75921
Scholarships	Financial Aid Office	UH-150	75034
Sexual Harassment	Sexual Harassment Advisor	(See <i>Class Schedule</i> )	
Simultaneous Enrollment	Advising and Academic Services	UH-380	75034
Student Development Programs	Student Leadership and Development	SU-203	75234
Student Assistants Work	Career Development Center	UH-329	75250
Study Skills (USTD courses)	Advising and Academic Services/SAIL	UH-380/386	75838
Teaching Credentials	CASE Office	CE-102	75609
Testing (make-up exams, challenge exams, etc.)	Learning Center Testing Services	UH-351	75038
Testing, Standardized (GRE,GMAT,EPT/ELM, etc.)	Testing Office	JB-405	75041
Transcripts	Records, Registration and Evaluation	UH-171	75268
Transfer of Credits	Records, Registration and Evaluation	UH-171	75200
Tutoring	Learning Center	UH-351	75038
Veteran's Certification	Records, Registration and Evaluation	UH-171	75213
Waiver and Substitutions of G.E. Requirements	Advising and Academic Services	UH-380	75034
Waiver of University Regulations (Graduate)	Appropriate Graduate Coordinator		
Work Study	Financial Aid Office	UH-150	75226
Writing Assistance	Writing Center	UH-388	75833



## Campuses of the California State University

### California State University, Bakersfield

9001 Stockdale Highway  
Bakersfield, CA 93311-1099  
Dr. Horace Mitchell, President  
(661) 664-2011 [www.csub.edu](http://www.csub.edu)

### California State University, Channel Islands

One University Drive  
Camarillo, CA 93012  
Dr. Richard Rush, President  
(805) 437-8400 [www.csuci.edu](http://www.csuci.edu)

### California State University, Chico

400 West First Street  
Chico, CA 95929-0150  
Dr. Paul J. Zingg, President  
(530) 898-4636 [www.csuchico.edu](http://www.csuchico.edu)

### California State University, Dominguez Hills

1000 East Victoria Street  
Carson, CA 90747-0005  
Dr. Mildred Garcia., President  
(310) 243-3300 [www.csudh.edu](http://www.csudh.edu)

### California State University, East Bay

25800 Carlos Bee Boulevard  
Hayward, CA 94542  
Dr. Mohammad Qayoumi, President  
(510) 885-3000 [www.csueastbay.edu](http://www.csueastbay.edu)

### California State University, Fresno

5241 North Maple Avenue  
Fresno, CA 93740  
Dr. John D. Welty, President  
(559) 278-4240 [www.csufresno.edu](http://www.csufresno.edu)

### California State University, Fullerton

800 N. State College Boulevard  
Fullerton, CA 92834-9480  
Dr. Milton A. Gordon, President  
(714) 278-2011 [www.fullerton.edu](http://www.fullerton.edu)

### Humboldt State University

One Harpst St.  
Arcata, CA 95521-4957  
Dr. Rollin C. Richmond, President  
(707) 826-3011 [www.humboldt.edu](http://www.humboldt.edu)

### California State University, Long Beach

1250 Bellflower Boulevard  
Long Beach, CA 90840-0115  
Dr. F. King Alexander, President  
(562) 985-4111 [www.csulb.edu](http://www.csulb.edu)

### California State University, Los Angeles

5151 State University Drive  
Los Angeles, CA 90032  
Dr. James M. Rosser, President  
(323) 343-3000 [www.calstatela.edu](http://www.calstatela.edu)

### California Maritime Academy

200 Maritime Academy Drive  
Vallejo, CA 94590  
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(707) 654-1000 [www.csum.edu](http://www.csum.edu)

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100 Campus Center  
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San Jose, CA 95192-0001  
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San Luis Obispo, CA 93407  
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(805) 756-1111 [www.calpoly.edu](http://www.calpoly.edu)

### California State University, San Marcos

333 S. Twin Oaks Valley Road  
San Marcos, CA 92096-0001  
Dr. Karen S. Haynes, President  
(760) 750-4000 [www.csusm.edu](http://www.csusm.edu)

### Sonoma State University

1801 East Cotati Avenue  
Rohnert Park, CA 94928-3609  
Dr. Ruben Armiñana, President  
(707) 664-2880 [www.sonoma.edu](http://www.sonoma.edu)

### California State University, Stanislaus

One University Circle  
Turlock, CA 95382-0299  
Dr. Hamid Shirvani, President  
(209) 667-3122 [www.csustan.edu](http://www.csustan.edu)



# CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO

## Vision Statement

California State University, San Bernardino will become one of the leading comprehensive universities in the nation, distinctive for its contributions to the understanding of learning and for the creation and study of innovative partnerships to promote educational, social, economic and cultural advancement in the region.

## Mission and Goals

The mission of California State University, San Bernardino is to enhance the intellectual, cultural and personal development of its students. Serving inland Southern California, in one of the fastest growing regions in the nation, the university seeks to serve the educational needs of the region and the state by offering a wide range of academic programs and support services. The overall goal is to prepare students to assume leadership roles in the 21st century.

The teaching and learning environment for students is enhanced by close contact with faculty, staff, and administrators in state-of-the-art facilities and through extracurricular activities offered outside of the classroom. In order to provide a truly comprehensive education for its students, the university has built programs and services based upon six objectives:

- Provide a sound program of general education in the arts and sciences for all undergraduates,
- Include experiential approaches to learning for undergraduate and graduate students,
- Foster an open exchange of ideas and views,
- Encourage and support faculty to remain current in the fields that they teach,
- Enrich students' lives outside of class by sponsoring speaker programs, supporting clubs and other organizations, and encouraging a variety of cultural events, and
- Build partnerships with the communities throughout the region in order to identify and solve mutual concerns and problems.

To achieve these aims, the university continues to develop academic programs and services that assist people who use the campus to gain the skills and information that they need to improve their quality of life and to plan for productive futures. The university offers a large number of professional, occupational, and traditional academic programs at both the baccalaureate and master's level, so that new and returning students can gain up-to-date skills and knowledge. To foster excellence and anticipate the needs of our service region, the university has identified six programmatic areas beyond its traditional liberal arts curricula for continued emphasis and expansion:

- Education programs to prepare teachers to serve a multicultural society,
- Applied science and engineering programs to support technology development in southern California,
- Management and administration programs to graduate future business and public agency leaders,
- Health and helping professions to support the burgeoning population in our service area,
- International studies to prepare graduates to function in a truly global community, and
- Fine and performing arts to enrich our lives.

The university seeks also to expand its role as one of the pre-eminent centers of cultural and intellectual activity in inland Southern California. Faculty, staff, administrators, and students sponsor conferences, institutes, workshops, exhibitions, and other extended learning activities. New programs, enhanced by new facilities, in the arts, information sciences, social sciences, extended education, and athletics will allow the university to offer a greater range of plays, concerts, art exhibitions, sports events, museum exhibitions, speakers, and academic offerings for its students and the community at large.

California State University, San Bernardino recognizes that one of its strengths is the diversity of the university community. As a result, the university has developed curricula and services that affirm the multiculturalism of this region and show the dignity and values that unite all people.

Faculty, administrators, and staff know, too, that the university serves not just traditional full-time students but others who attend part-time because of responsibilities at home and at work. In fact, because many students begin their higher education elsewhere, the university continually updates its transfer agreements with surrounding colleges and universities. Furthermore, to help all students complete their programs of study, the university offers both day and evening classes on campus as well as selected programs at a few off-campus sites, including a center in the Coachella Valley. Additionally, innovative uses will be made of technology to serve its many student populations throughout the Inland Empire.

With outstanding faculty, administrators, and staff from around the nation and the world, the university is fully prepared to instruct and support its diverse student body and to serve the region's intellectual and cultural needs. Through excellence in the pursuit of learning, the university enriches both itself and the communities it serves.

*The above Statement of Mission and Goals was approved by the Faculty Senate and President Anthony H. Evans in November, 1993.*

## Location and History

The city of San Bernardino is situated at the foot of the San Bernardino Mountains, which form the northeastern boundary of the San Gabriel Valley. The valley's western terminus, 60 miles away, is the Los Angeles basin and the beaches of the Pacific Ocean.

In earlier times the San Bernardino area was the home of Serano, Luiseno and Cahuilla Indians. The first pioneers from Mexico settled in the San Gabriel Valley in the 1770s. Mission San Gabriel was founded by Fr. Junipero Serra in 1771, ten years before pueblo Los Angeles was established. The mission built a fortified asistencia near modern San Bernardino in 1819, but this was abandoned in 1834 when newly independent Mexico secularized the missions.

In 1842, the Lugo family purchased the 37,000-acre San Bernardino Valley. A group of Mormon colonists came to the valley in 1851, purchased the Lugo Rancho and built a stockade near the present county courthouse. A village developed around the stockade and this, coupled with California statehood, led to the establishment of San Bernardino County in 1853 and the incorporation of the city of San Bernardino in 1854. Connection to the transcontinental railroad in 1885 recognized the valley's importance and insured its future growth and prosperity.

## Inland Southern California

The historic San Bernardino Valley is part of inland Southern California, an area encompassing all of San Bernardino and Riverside counties. The university is within the Riverside-San Bernardino-Ontario metropolitan area and also serves more distant locations in the two counties, the Colorado River communities of Blythe and Needles; the high desert area including Victorville and Barstow; the low desert, Coachella Valley region including Palm Springs, Palm Desert and Indio; the mountain communities of Big Bear, Lake Arrowhead and Idyllwild; the Hemet Valley, including Hemet, San Jacinto and Perris.

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Donald Baker  
Glenda Bayless  
John Brudin  
Arthur M. Butler  
Gloria Cutler  
Theodore Dutton  
James Egan  
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Louis Fletcher  
Robert Fullerton  
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Florentino Garza  
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Louis Monville  
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## Administrative Officers

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Associate Dean .....	Otto Chang, Ph.D.
Associate Dean .....	Frank Lin, Ph.D.
Dean, College of Education .....	Patricia Arlin, Ph.D.
Associate Dean, Administration .....	Carolyn Eggleston, Ph.D.
Associate Dean, Teacher Education .....	Iris Riggs, Ph.D.
Dean, College of Natural Sciences .....	B. Robert Carlson, Ph.D.
Associate Dean .....	John Craig, Ph.D.
Assistant Dean .....	Cynthia Paxton, Ph.D.
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Dean, College of Social and Behavioral Sciences .....	Jamal Nassar, Ph.D.
Associate Dean .....	Carolyn Aldana, Ph.D.
Assistant Dean, .....	Jean Peacock, Ph.D.
Assistant Dean .....	David Riefer, Ph.D.
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Associate Dean .....	Tatiana Karmanova, Ph.D.
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Director, Learning Center .....	Cynthia Linton, M.A.
Director, Research and Policy Analysis .....	
Director, S.A.I.L. Program .....	Debbie Flores, M.A.
Director, University Honors Program .....	Ruth Burke, Ph.D.
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Assistant Director, Institutional Research .....	Muriel Lopez, M.A.
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Head, Public Services .....	Les Kong, M.L.S., M.B.A.
Head, Collection Development .....	Michael Burgess, M.S.
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Director, Common Management Systems .....	Charles Tabbut, B.A. (Interim)
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Director, Telecommunications and Network Services .....	Owen Owens, B.S.

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Chief Engineer, Heating and Air .....	Phillip Westbrook	
Chief, Custodial Services .....	Michael Benton	
Manager, Grounds .....	Ruben Nunez	
University Police Chief .....	Jimmie Brown, B.S.	
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Director, Corporate/Foundation Relations .....	Stephanie White, M.B.A., CFRE	
Director, Development for Athletics .....	Michael Kovack, B.A.	
Director, Development for Palm Desert Campus .....	Vacant	
Director, Development for College of Arts and Letters .....	Richard Jarvis, B.A.	
Director, Development for College of Business and Public Administration .....	Bonnie O'Conner, M.P.A.	
Director, Development for College of Education .....	Adrian Stevens, M.S.	
Director, Development for College of Natural Sciences .....	Roberto Redondo, M.P.A.	
Director, Development for College of Social and Behavioral Sciences .....	Vacant	
Director, Development for Special Initiatives .....	Elva Salgado, B.A.	
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Director, Coussoulis Arena .....	Carol Dixon, M.B.A.	
Director, Student Leadership and Development .....	Mark Hartley, M.A.	
Director, WorkAbility IV .....	Beth Jaworski	
Director, Recreational Sports .....	Rick Craig, M.S.	
Executive Director, Santos Manuel Student Union .....	Helga Kray, M.P.A. (Acting)	
Executive Director, Associated Students, Inc. ....	Patrick Areffi, M.S.	

## The Academic Colleges and Departments of the University

### College of Arts and Letters

Dean	Eri Yasuhara
Associate Dean	Leo Connolly
Assistant Dean	Salaam Yousif
Chairs:	
Art	Sant Khalsa
Communication Studies	Mo Bahk
English	Rong Chen
Music	Todd Johnson
Philosophy	Chris Naticchia
Theatre Arts	Margaret Perry
World Languages and Literatures	Terri Nelson

### College of Business and Public Administration

Dean	Karen Dill Bowerman
Associate Dean, Student Affairs	Frank Lin
Associate Dean, Administrative Affairs	Otto Chang
Chairs:	
Accounting and Finance	Ghulam Sarwar
Information and Decision Sciences	Walt Stewart
Management	Lee Hanson
Marketing	Lloyd Peake (Interim)
Public Administration	Monty Van Wart

### College of Education

Dean	Patricia Arlin
Associate Dean, Division of Teacher Education	Iris Riggs
Associate Dean, Administration	Carolyn Eggleston
Chairs:	
Educational Psychology and Counseling	Ruth Sandlin
Educational Leadership and Curriculum	David Stine (Interim)
Language, Literacy and Culture	Mary Jo Skillings
Science, Mathematics and Technology Education	Herbert Brunkhorst

### College of Natural Sciences

Dean	B. Robert Carlson
Associate Dean	John Craig
Assistant Dean	Cynthia Paxton
Chairs:	
Biology	David Polcyn
Chemistry and Biochemistry	David Maynard
Computer Science and Engineering	George Georgiou
Geological Sciences	Alan Smith
Health Science and Human Ecology	Ted Coleman
Kinesiology	Terry Rizzo
Mathematics	Peter Williams
Nursing	Lynne Leach
Physics	Paul Renteln

### College of Social and Behavioral Sciences

Dean	Jamal Nassar
Associate Dean	Carolyn Aldana
Assistant Dean	Jean Peacock
Assistant Dean	David Riefer
Chairs:	
Anthropology	Peter Robertshaw
Criminal Justice	Larry Gaines
Economics	Nancy Rose
Geography and Environmental Studies	Jeffrey Hackel
History	Pedro Santoni
Political Science	Brian Janiske
Psychology	Joanna Worthley
Social Work	Teresa Morris
Sociology	Randi Miller



# THE UNIVERSITY ACADEMIC PROGRAM

Now in its fourth decade, California State University, San Bernardino continues its development in new directions.

The college opened in 1965, offering six degree programs to approximately 300 students and focusing on the liberal arts. Currently the curriculum has been expanded to 47 baccalaureate degree programs, 15 teaching credential fields and various options within 26 master's degree programs, and one doctoral program. Current enrollment approaches 18,000.

While continuing to emphasize the liberal arts, the university has implemented a number of career-oriented programs, both at the undergraduate and at the graduate levels.

## Academic Plan

California State University, San Bernardino operates on the quarter system. The fall, winter and spring terms each consist of 10 weeks of instruction plus a final exam week. The university also offers a state-supported summer quarter allowing students to accelerate their progress and take summer courses at the same fees as during the rest of the academic year. Summer quarter has overlapping five-week and one 10-week terms.

Most lecture/discussion courses are offered for four units of credit and meet four hours per week. Each unit of credit typically requires two hours of out-of-class study and preparation in addition to the hour of direct instruction in the class. Laboratories and activity-based courses, such as studio art, music, physical education, computer science, etc. meet for 2-3 hours of instruction a week for each unit of credit. Students transferring from a semester system campus should note semester courses are five weeks longer (15 weeks versus 10) so that a quarter unit is equal to 2/3 of a semester unit. (Thus, three semester units are equivalent to 4.5 quarter units.)

The total number of quarter units required for graduation varies from a minimum of 180 for the Bachelor of Arts degree to 198 units for the Bachelor of Science. Students planning to graduate in four years need to take an average of 15 units per quarter to reach 180 units. Master's degrees require a minimum of 45 units, but some professional degrees, such as the M.S.W. in Social Work and M.S. in Psychology, have licensing and/or accreditation standards demanding up to 90 units. The Ed.D. in Educational Leadership requires 92 units for completion.

## Colleges of the University

The academic program of the university is offered through five colleges—Arts and Letters, Business and Public Administration, Education, Natural Sciences, and Social and Behavioral Sciences—organized into departments.

Degree programs are offered by departments, colleges and interdisciplinary committees. A complete listing of the degrees available at the university may be found on the next two pages.

## Accreditation

California State University, San Bernardino is accredited by the Western Association of Schools and Colleges, the official accrediting body for institutions of higher learning in the West. The teaching credential programs are approved by the California State Board of Education, California Commission on Teacher Credentialing, and the National Council for Accreditation of Teacher Education (NCATE).

The following professional programs have received specialized approval or accreditation from organizations recognized by the national Council on Postsecondary Education:

**Administration** (B.A., B.S., M.B.A.)-AACSB International, The Association to Advance Collegiate Schools of Business

**Art** (B.A.)-National Association of Schools of Art and Design

**Chemistry** (B.S.)-American Chemical Society

**Computer Science** (B.S.)-Accreditation Board of Engineering and Technology, Computing Accreditation Commission

**Health Science, Environmental Health** (B.S.)-National Environmental Health Science and Protection Accreditation Council; California Department of Health Services, Environmental Health Specialist Registration Committee

**Music** (B.A.)-National Association of Schools of Music

**Nursing** (B.S.)-Commission on Collegiate Nursing Education

**Nutrition and Food Sciences** (B.S.)-American Dietetics Association (Plan V, Didactic Program in Dietetics)

**Public Administration** (M.P.A.)-National Association of Schools of Public Affairs and Administration

**Rehabilitation Counseling** (M.A.)-Council on Rehabilitation Education

**Social Work** (B.A.)-Council on Social Work Education

**Social Work** (M.S.W.)-Council on Social Work Education

**Theatre Arts** (B.A.)-National Association of Schools of Theatre

## Scheduling of Classes

Most four-unit courses meet for 200 minutes per week. Three basic plans are used in scheduling classes: three meetings per week (usually Monday-Wednesday-Friday), two meetings per week or one meeting. Principal exceptions occur among laboratory, activity and studio courses and courses which carry less than four units of credit.

The two-period, two-day-per-week format is utilized for Tuesday-Thursday classes and most late afternoon and evening courses; the single four-hour period format has been found most appropriate for certain evening and weekend classes. The university attempts to maintain accurate information about changing student needs and to adjust its class schedule accordingly.

## Late-Day and Evening Classes

Courses offered in the late afternoon and evening are in every respect the equal of courses offered earlier in the day; they have identical prerequisites and requirements and they confer equal credit. Late-day classes have proven to be of convenience to regular and part-time students, teachers, business people and others in the community. The proportion of late-day classes has been increasing and stands currently between one-third and one-half of all classes.

## Campus Tours

Office of Admissions and Student Recruitment  
(909) 537-5188 [tours@csusb.edu](mailto:tours@csusb.edu)

Tours of the Cal State campus are available throughout the year for individuals or groups. Student visitors interested in acquiring firsthand information about the university's programs or classes may request a meeting with faculty or an admissions counselor. Arrangements can be made to visit the residence halls.



## 14 / Academic Program

**Baccalaureate Degree Programs**

In the 2008-2009 academic year, the university will offer bachelor's degree programs in the following fields (majors):

**College of Arts and Letters**

Art	B.A.
Plan I (Art Education)	
Plan II (Studio Art)*	
Plan III (Art History)*	
Plan IV (Graphic Design)*	
Plan V (Graphic Design and Marketing)	
Communication	B.A.
human communication	
intercultural communication*	
mass communication	
public argumentation and rhetoric	
public relations*	
English*	B.A.
creative writing	
linguistics	
literature	
French*	B.A.
business	
culture studies	
literature	
Music*	B.A.
music education	
performance/composition	
general music studies	
music technology	
musical theatre	
ethnomusicology	
music history	
Philosophy*	B.A.
law/ethics/politics	
philosophy of religion/religious studies	
Spanish*	B.A.
business	
Hispanic literature, language and civilization	
Theatre Arts*	B.A.
acting	
dance	
design/technical	
drama education	
musical theatre	

**College of Business and Public Administration**

Administration	B.A./B.S.
accounting*	
accounting information systems	
business economics	
entrepreneurial management*	
finance*	
financial planning	
information assurance and security management	
information management*	
international business	
management*	
marketing*	
public administration*	
real estate*	
supply chain management*	
transportation and logistics	

**College of Education**

Vocational Education	B.S./B.V.E.
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**College of Natural Sciences**

Bioinformatics	B.S.
Biology*	B.A./B.S.
pre-med	
ecology and evolution	
Chemistry*	B.A./B.S.
biochemistry	
ACS certified	
Computer Engineering	B.S.
Computer Science*	B.S.
Computer Systems	B.A.
Geology*	B.A./B.S.
environmental geology	
Health Science*	B.S.
ambulatory care/group practice management*	
environmental health science	
health care management*	
public health education	
school health	
Kinesiology*	B.S.
exercise science	
pedagogy	
pre-physical therapy	
Mathematics*	B.A./B.S.
teachers	
Nursing	B.S.
Nursing - R.N.	
Nutrition and Food Sciences*	B.S.
Physics*	B.A./B.S.
applied physics*	

**College of Social and Behavioral Sciences**

Anthropology*	B.A.
Criminal Justice*	B.A.
crime analysis	
paralegal studies*	
Economics*	B.A.
political economy*	
Geography*	B.A.
geographic analysis-spatial technical	
History*	B.A.
public and oral history	
Political Science*	B.A.
Psychology*	B.A.
biological psychology	
Social Sciences	B.A.
Social Work	B.A.
Sociology*	B.A.
social service	

**Interdisciplinary Programs**

American Studies	B.A.
Environmental Studies*	B.A.
Human Development	B.A.
child development	
school age	
lifespan	
Human Services	B.A.
Liberal Studies	B.A.
arts and letters	
integrated studies	
Spanish studies	
teaching	
Special Major	B.A.

\* program also has a minor available. See Page 56 for a complete list of minors offered

## Graduate Degree Programs

In the 2008-2009 academic year, the university will offer master's and doctoral degree programs in the following fields:

Art	M.A.
art education	
studio art	
Biology	M.S.
Business Administration	M.B.A.
accounting	
entrepreneurship	
executive	
finance	
information assurance and security management	
information management	
marketing management	
supply chain management	
Communication Studies	M.A.
integrated marketing communication	
Computer Science	M.S.
Counseling and Guidance	M.S.
Criminal Justice	M.A.
Education, with options in:	M.A.
bilingual/cross-cultural	
career and technical education	
correctional and alternative education	
curriculum and instruction	
environmental education	
health education	
holistic and integrative education	
instructional technology	
kinesiology	
reading/language arts	
science education	
special education	
teaching English to speakers of other languages.	
Educational Administration	M.A.
Educational Leadership	Ed.D.
English Composition	M.A.
English composition	
English literature	
teaching English as a second language	
Environmental Sciences	M.S.
Health Services Administration	M.S.
Interdisciplinary Studies	M.A.
Mathematics	M.A./M.A.T.
National Security Studies	M.A.
Nursing	M.S.
school nurses	
Psychology	M.A.
child development	
general-experimental psychology	
Psychology	M.S.
clinical/counseling psychology	
industrial/organizational psychology	
Public Administration	M.P.A.
Public Health	M.P.H.
Rehabilitation Counseling	M.A.
Social Sciences	M.A.
Social Work	M.S.W.
Spanish	M.A.
Theatre Arts	M.A.

## Programs Under Development

The university is planning to offer the following programs in the future pending official authorization by the CSU Chancellor's Office.

Degree	Contact
Accountancy, M.S.	College of Business and Public Administration
Arabic Studies, B.A.	College of Arts and Letters
Child Development, M.A.	College of Social and Behavioral Sciences
Correctional Education, Ph.D.	College of Education (joint, with Claremont College)
Creative Writing, M.F.A.	College of Arts and Letters
Kinesiology, M.S.	College of Natural Sciences
Music, M.A.	College of Arts and Letters
Special Education, M.S.	College of Education
Studio Art, M.F.A.	College of Arts and Letters

## Class Size

A distinctive feature of the San Bernardino plan is the attempt to offer the majority of courses in a small lecture/discussion/seminar format. Currently approximately 70 percent of the courses are taught in this arrangement. This small class size increases the possibilities for discussion and for student-faculty contacts both within and outside the classroom.

To maintain the small class as the norm requires that some proportion of courses be offered in an intermediate size (enrollment of 30 to 72) or in a large-lecture format (maximum enrollment of 250).

Among lower-division general education courses, those in the basic skills area, in foreign language, in mathematics and in English are offered mostly through small classes, while those in other areas typically employ intermediate or large-lecture classes. Upper-division general education courses may be offered in the large-lecture format. Each department utilizes intermediate size classes for a small number of required or elective courses, but the majority of departmental offerings are in small classes. The typical laboratory section has a maximum enrollment of 24, sometimes less.

## Course Numbering System

1-99	Nondegree-applicable credit.
100-299	Lower-division courses designed primarily for freshmen and sophomores. Graduate credit is not allowed.
300-599	Upper-division courses of junior and senior level; graduate credit may be awarded if course is accepted in a specific graduate program.
600-699	Courses for postbaccalaureate and graduate students only. May not be taken by undergraduates.
700-799	Courses for doctoral candidates only.
990-999	Special comprehensive exams, projects, units not awarded.
X800-X989,	Courses offered through extension only. Credit
X1000-X9999	not degree applicable.
IP100-IP699	Courses taken by students in the International Programs.
e300-e699	Credit earned in a continuing education program for residence credit pursuant to an external degree program.

## Course Credits and Study Expectations

Most courses at California State University, San Bernardino carry four quarter units of credit; some carry six units; some two units; and a few variable credit. Course credits are indicated in the course descriptions in this catalog. Since each unit of credit presumes one hour of class time and two hours of preparation, a typical

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four-unit course would require a minimum of 12 hours per week of the student's time. For purposes of comparison with other colleges, a four quarter-hour course is equivalent to a 2.66 semester-hour course.

### Faculty Office Hours

In addition to meeting with students during designated class hours, faculty members hold regularly scheduled office hours, which are posted outside their offices. A student who is unable to see a faculty member during class or the posted office hours may arrange an appointment by contacting the appropriate department office.

### University Honors Program

The University Honors Program stands for an education that will give each student the opportunity to explore ideas and principles underlying the major areas of modern knowledge, the understanding that learning is a continuous lifetime process, and the courage and enthusiasm to participate in the creation of a better world. This program offers integrated courses and other enrichment opportunities for highly-motivated students who seek an intellectual challenge. Most honors courses fulfill the general education requirements which all students at the university must meet.

Students who have shown scholastic ability, intellectual promise, and creativity are encouraged to apply for the program. Further information about the Honors Program can be obtained in PL-208, (909) 537-7765 or 537-5889.

### Phi Kappa Phi

Academic Affairs Office, AD-101  
(909) 537-5024 [pkp.csusb.edu](http://pkp.csusb.edu)

The university has an active chapter of the national honor society of Phi Kappa Phi, whose purpose is the recognition and encouragement of superior scholarship in all academic disciplines. Membership is by invitation issued to selected juniors, seniors and graduate students who have excelled in scholarship and who meet the chapter's requirements. Graduating seniors who are members of PKP have an opportunity to apply for a Fellowship from the national office to be used towards the first year of graduate study. The deadline is February 1st each year.

### Gamma Lambda of Phi Beta Delta

Phi Beta Delta, founded in 1986, is the first U.S. honor society dedicated to recognizing individuals who have demonstrated scholarly achievement in the areas of international education and exchange. These individuals include: international (visa) students who have demonstrated high scholastic achievement at our university; U.S. students who have completed studies abroad in approved exchange programs with our university; distinguished international faculty at California State University, San Bernardino; distinguished CSUSB faculty and staff who have been involved in recognized international endeavors (i.e. research, teaching, program development and service). The Gamma Lambda Chapter at California State University, San Bernardino is a charter chapter of the national organization.

### Palm Desert Campus

37-500 Cook Street, Palm Desert  
(760) 341-2883 [pdc.csusb.edu](http://pdc.csusb.edu)

Residents of the Coachella Valley, Joshua Tree area, and surrounding communities can now complete a B.A., M.A. or teaching credential program without driving long distances. California State University, San Bernardino opened a branch campus at College of the Desert in fall of 1986, and the two institutions are working in partnership to provide affordable higher education. College of the Desert provides freshman and sophomore-level course work, while the university's Palm Desert Campus offers junior, senior and graduate level classes in a variety of programs. Degree and credential

programs which can be completed at the Palm Desert Campus include the following:

- Administration (B.A.)
  - Management
- Administration (B.S.)
  - Accounting
  - Finance
- Art (Graphic Design) (B.A.)
- Communication (B.A.)
- Criminal Justice (B.A.)
- Designated Subjects, Credential
- Education (M.A.)
  - Curriculum and Instruction
  - Instructional Technology
  - Reading/Language Arts
  - Special Education
  - Teaching English to Speakers of other Languages
- Educational Administration (M.A.)
- English (B.A.)
- Health Science (Health Care Management) (B.S.)
- History (B.A.)
- Human Development (B.A.)
- Liberal Studies (B.A.)
- Multiple Subject (Credential)
- Nursing (B.S.)
- Public Administration (M.P.A.)
- Psychology (B.A.)
- Single Subject (Credential)
- Special Education, Credential

The Palm Desert Campus is on the quarter system, and students can enroll either exclusively in Coachella Valley, or can combine San Bernardino and Palm Desert classes. Admissions information, course registration, academic advising, and a variety of student services are available at the branch campus.

Daytime, evening and weekend classes are offered. The campus is equipped with state-of-the-art technology, including interactive video conferencing.

### Victor Valley College Center

18422 Bear Valley Road, Victorville  
<http://odl.csusb.edu>

California State University, San Bernardino's regional center (High Desert Teacher Education and Development Center) offers upper division, credential, graduate and extended learning programs for the convenience of students living in the High Desert. Courses are available on site, by compressed video from the main campus or the Palm Desert Campus and on-line. Admission and financial aid information, registration, academic advising and library access are also available locally. CSUSB utilizes classrooms, computer labs and a teleconference classroom on the VVC campus. Students enrolled in courses offered by CSUSB receive a Coyote OneCard or Coyote Remote Access Card to allow access to library and database resources through the Internet from CSUSB. In addition, students receive a Victor Valley College ID card to allow access to VVC computer labs, library, bookstore and food services. Courier service is available to VVCC from the main campus and PDC. While CSUSB operates on a quarter system, VVC operates on a semester system.

### Distributed Learning

(909) 537-7439 <http://odl.csusb.edu>

The Office of Distributed Learning (ODL) provides coordination and oversight of a multitude of distributed learning activities on campus, including state-supported degree programs as well as technology-based extension courses and activities.

The concept of distributed learning implies a system through which the campus can more fully "distribute" its academic resources to its diverse and broad-based population, whether at a distance or simply bound by time constraints. Distributed learning techniques engage students more actively (or interactively), and focus on helping students achieve class objectives via a number of state-of-the-art technologies, including compressed video, satellite, cable, Internet, and on-line delivery formats. In addition, courses taught off campus at remote sites are coordinated by the Office of Distributed Learning.

For more information on course offerings, professional development for faculty or programs offered by other CSU campuses, contact the ODL.

## Special Courses

More specific information on the special courses described below can be obtained from the Office of Academic Programs or the appropriate colleges and departments.

**Cooperative Education.** The university is developing ways in which students may earn course credit through academically related work experience. Currently available are internship courses in accounting, administration, anthropology, art, Asian, biology, chemistry, communication, computer science, criminal justice, economics, education, English, environmental studies, ethnic studies, finance, French, geography, geology, health science, history, human development, humanities, information management, management, marketing, philosophy, physics, public administration, paralegal studies, political science, psychology, social work, sociology, Spanish, supply chain management, theatre arts and women's studies.

**Self-Paced Courses.** An alternative mode of instruction enables students to set their own learning pace. ANTH 335 is conducted on an independent study basis made possible through the use of study guides, video tapes and other instructional resources.

**On-Line Courses.** Online courses and web/classroom courses are identified as such in the *Class Schedule* by department and in the distributed learning section. Various departments in all colleges offer courses. Online courses are taught completely on the Internet and are not assigned classroom space. Web/classroom courses are assigned classroom space and meeting times range from once per quarter to weekly, accompanied by significant online materials. Students taking on-line courses should consult the Office of Distributed Learning website at <http://odl.csusb.edu> for minimum hardware and software requirements for taking any courses on the Internet.

## Facilities

The campus of California State University, San Bernardino blends modern facilities with wide expanses of well maintained landscapes, and panoramic views. As such, the Pfau Library Mall has undergone extensive new landscaping, providing a beautiful, multifunctional, open space setting to enhance university life.

The 430-acre campus features more than 33 fully accessible and air-conditioned buildings. In addition to classrooms and laboratories for course work in the arts, letters, sciences, and social sciences, the university has a number of rather distinctive facilities, such as simulation laboratories, a modern instructional television studio lab, an electronic music studio, glass blowing facilities, a Geographic Information Systems (GIS) Lab, Crime Analysis Lab, Anthropology Museum, Infant/toddler Teaching Lab, the Arrowhead Lab for Security Analysis, Literacy Center, Math and Science Teaching Methods Labs, and state-of-the-art self-instructional computer laboratories located in each of the major instructional buildings.

The university, experiencing an enrollment-driven expansion, enhanced the physical plant with the University Hall building, opening its doors in the fall of 1991, and the Foundation Building completed in winter of 1992.

In response to a demand for more facilities, completed construction includes the Jack H. Brown Hall which houses the Col-

lege of Business and Public Administration, and the Departments of Computer Science and Engineering, Health Science and Human Ecology and Mathematics.

The campus expansion also includes the John M. Pfau Library addition, doubling the building floor space, which opened in Fall 1994. Besides greatly increasing library space, the building houses the Information Resources and Technology Division which is comprised of the Departments of Academic Computing and Media, Administrative Computing Services, Data Center Services and Telecommunications and Network Services as well as the Pfau Library. This addition also houses several self-instructional computer labs, professional development labs, and Distributed Learning labs.

In winter, 1995, the new Health/PE/Classroom/Faculty Office Complex opened with a 5,000-seat gymnasium, Coussoulis Arena, and also provides three basketball cross-courts, a dance studio, sports medicine room, a weight training room, an outdoor twenty-five meter competition pool, and additional outdoor facilities. The facility houses Athletics, and the Nursing and Kinesiology Departments, with additional lecture space and self-instructional computer labs.

Dedicated in fall, 1995, the Yasuda Center for Extended Learning, a one-story classroom and conference facility provides five classrooms, a multipurpose room, a language lab, two computer labs and a student lounge.

The Visual Arts Center and Robert V. Fullerton Museum opened its doors in 1996 to a University Gallery with supporting storage rooms and workrooms, a 150-student lecture auditorium, teaching labs, seminar classrooms, 25 faculty offices, and self-instructional computer graphic, video and photographic studios for the College of Arts and Letters/Visual Arts Department.

The Facilities Management addition and Administrative Services building were completed in January 2000, providing much needed shops, warehouses, and administrative offices in the Departments of Duplicating, Receiving, Mail Services, Capital Planning, Design and Construction, Facilities Services, Environmental Health and Safety, and Public Safety.

The Social and Behavioral Sciences building opened in Fall 2002 and houses nine academic departments, 23 classrooms with full audio, video and DVD technology, 32 state-of-the-art teaching and research laboratories, offices for 105 faculty and 23 staff, the Criminal Justice Policy Research Center, the Learning Research Institute, the Center for the Study of Hate and Extremism, the Institute for Child Development and Family Relations, the Oral History Program, and the Anthropology Museum.

The Chemical Sciences Building was completed in Winter, 2006. The building contains eight state-of-the-art chemistry teaching labs, a number of student project and graduate research labs, several instrument rooms, a self-instructional computer laboratory, and a number of other instructional support rooms. The Department of Chemistry and Biochemistry are located in this building and the Biology Department also has a graduate research suite of laboratories in the building. The building houses a Natural Sciences Museum and has four tiered classrooms with the latest "smart classroom" projection technology and a combined seating capacity of 360 students. The laboratories have been equipped with an array of modern teaching and research instrumentation.

In past years, students approved a fee referendum to help fund an expansion and renovation of the Student Union, now named Santos Manuel Student Union thanks to a generous gift to the university by San Manuel Band of Mission Indians. Opening in Spring 2006, the renovated Santos Manuel Student Union provides larger dining areas with more restaurant choices; expanded office space for student clubs and organizations; additional space for the university's Cross Cultural Center, Women's Resource Center and Adult Re-Entry Center; a 200-seat theatre for films, concerts and speakers; meeting rooms; student lounges and a large two-story atrium



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at the hub of the building. The referendum also funded a new Student Recreation and Fitness Center which opened in spring 2007. This space houses a weight room, gym/athletic court, group fitness room, locker rooms and a 34' rock climbing wall as well as additional administrative office space.

Several other campus enhancements are planned. The renovation of the Biological Sciences building was completed in Spring 2007 and the renovation of the Physical Sciences building was completed in Spring 2008. A College of Education building was scheduled to open in Fall 2008. Feasibility studies were completed justifying a University Theatre and Performing Arts addition and renovation and a Library renovation is also under review.

The first permanent building at the Palm Desert Campus, the Mary Stuart Rogers Gateway Building, was occupied in 2002 and houses classrooms, distributed learning classrooms, bookstore, administrative offices, the Rancho Mirage Student Union, the Helene A. Hixon Information Resource Center, and the Oliphant Auditorium. The Indian Wells Center for Educational Excellence was opened in 2004. It houses teacher education offices in the Annenberg Wing, the Charles and Priscilla Porter History-Social Science Resource Room, and teacher education classrooms. The Indian Wells Theater is a 300-seat facility for instruction as well as for public lectures and performances. Construction began on a third building again funded through the efforts of a public-private partnership. This building responded to the Coachella Valley's critical shortage of health care professionals by providing a state-of-the-art learning-teaching environment dedicated to departments of Nursing and other Health Science programs.

### University Library

<http://www.lib.csusb.edu>

The mission of the Pfau Library is to meet the information needs of its users, both in paper and electronic formats, both inside and outside its walls, and to continue to support curricular and research needs. The Pfau Library consists of a general collection of 750,000 books and bound periodicals. The Library subscribes to more than 1,300 periodicals, newspapers, and other serial publications in paper format and more than 30,000 periodical titles on-line offering full text and/or abstracts. The book collection is further augmented by musical scores, maps, microformat materials, curriculum materials, CD-ROM networks, and electronic databases. The Library's card catalog is a computerized catalog which provides web-based workstations. Remote access to on-line databases is available. Two electronic, on-line bibliographic instruction rooms provide bibliographic content training for students. As a depository for California state documents, the Library regularly receives state publications. In 1999 the Pfau Library was designated as a United States Government Documents depository. Reciprocal borrowing agreements with other area libraries further enhance the availability of material.

All materials are easily accessible to students. An open shelf arrangement of the collection gives users convenient access to Library materials. The Library occupies the first, second (in the Addition only), third, fourth and fifth floors and parts of the basement of the Pfau Library Building. Special facilities include photo-duplicating service, micro-forum readers, map room, media facilities, individual study carrels (some with power to accommodate laptop computers), group study rooms, a curriculum collection and seating for about 1,200 users. Individual or class instruction in Library usage is available upon request. Resource handouts are available at the Reference Desk.

### Academic Computing and Media

<http://acm.csusb.edu>

Academic Computing and Media provides the campus community with a wide variety of technological services from instructional computing resources to computing and multimedia consultation as well as professional development courses.

The ACM self-instructional labs, which are located in the "wedge" side of the Library, have over 150 computers in Mac and Windows platforms that provide Microsoft's Office Suite of software applications, Internet access and assistive technology computers for people with disabilities. For greater support students with disabilities can go to the Assistive Computing Resource Center (ACRC) located in PL-1104. There are professional staff and student consultants for training and assistance in various software applications including email, the Internet, Microsoft's Office Suite software in the ACRC and the Student Tech Support Center labs in PL-1108.

ACM's Media Services area provides audio/video equipment and support for the academic campus and has assisted in the creation of "smart" rooms by adding technology into over 154 rooms on Campus. In addition to the standard overhead projector as an instructional aide, students and faculty are given access to rooms with LCD projectors, computers, DVDs and VCRs, speakers and screens to enhance the learning experience. Media Services also offers micro teaching rooms and video viewing services.

ACM's Professional Development area for faculty and staff provides consultation and training classes, as well as, one-on-one assistance. Web development consultation and assistance is also available to faculty and staff. The Campus Web Master's office monitors ADA compliancy and provides development for campus web sites while the multimedia area creates and consults on interactive CDs, and videos. Teleconferencing and video conferencing is another facet of ACM, along with the facilitation of Distributed Learning classes. ACM also administers the Campus Photographer, the Coyote One Card and the Campus' radio station.

### Administrative Computing Services

<http://acs.csusb.edu>

Administrative Computing Services' (ACS) mission is to develop software tools to enhance and support the learning experience of campus constituents through the deployment of technology. ACS provides support for all university enterprise administrative software applications. Currently, the Student Information System, Student Aid Management System, Human Resources and Financials, Degree Audit Record System, and the Development System are all managed by the department. Additional applications, such as the, WebComm, and web applications located at URL: <http://info001.csusb.edu> are maintained and enhanced by the ACS analyst/programmers.

**Common Management System Office.** The CMS project involves the implementation of PeopleSoft, an integrated software solution for the administration of Human Resources, Financials and Student Administration across the CSU campuses. The campus CMS Office is responsible for managing the campus implementations and upgrades including: overall planning, budgeting, and coordination of project activities with the various campus project teams and affected organizations. The student administration module went live in Fall 2007. Additional Information about the CMS project can be found on the website: <http://cms.csusb.edu>, and <http://mycoyote.cms.csusb.edu> for self service applications.

### Information Security Office

<http://infosec.csusb.edu>

The Information Security Office (ISO) coordinates the implementation of information security practices and procedures to ensure the confidentiality, integrity and accessibility of university information Systems. The ISO responsibilities includes all aspects of incident management, coordination of the Computer and Information Systems Incident Response Team (CISIRT), and management of the CSUSB certificate authority. The ISO provides the campus community training in information security and organizes the information security awareness events and activities.

## Data Center and Helpdesk Services

<http://helpweb.csusb.edu>

The IRT Support Center and Data Center Services is a central resource for help, information and support on a 24/7 basis providing the University with an effective, primary point of contact for timely and consistent response to computing and information technology and its related inquiries and problems. The center provides efficient and effective utilization of resources throughout the IRT division, and is responsible for the system administration and maintenance of the hardware and software environment supporting all administrative computing Systems on-line and batch production, production support, personal computers, campus central servers and system maintenance. These services include software installation, IBM mainframe and Central servers security, configuration, maintenance, file backup and recovery, computer generated media and distribution, on-line/paper base surveys, test surveys, tape processing, optical scanning services, report processing and first, second and third level technical support. For more information and scope of services, see <http://helpweb.csusb.edu>, or e-mail at: [helpdesk@csusb.edu](mailto:helpdesk@csusb.edu) or [jobreq@csusb.edu](mailto:jobreq@csusb.edu) for the Data Center and Helpdesk Services.

## Telecommunications and Network Services

<http://tns.csusb.edu/>

The Telecommunications group is responsible for supplying and repairing telephone equipment, including the campus telephone switches, managing the campus operators and maintaining the campus voice mail system, and the yearly updating and distribution of the campus telephone directory. During Summer 2005, the campus migrated to a Voice Over Internet Protocol (VOIP) for the new telephone infrastructure. The Telecommunications group can complete work requests from users for specific telecommunications-related activities. The Network Services group is responsible for installing, managing, and maintaining the campus network infrastructure, various campus-wide network applications, and specific network Systems and providing campus-wide functions, such as Email, DNS, DHCP, IP routing, and firewall support to name a few. In addition, the Network Services group can complete work requests from users for specific network-related activities.

## Degree Completion Programs for Part-Time Students

Increasing opportunities are being developed for part-time students to complete baccalaureate and master's degree programs by attending late-day classes, as well as Friday night and weekend courses with compressed schedules.

Presently offered in the late afternoon and evening is a sufficient range of upper-division course work to complete a major in administration, criminal justice, economics, English, geography, health science, history, human development, humanities, human services, liberal studies, mathematics, nursing, psychology, social sciences, sociology, Spanish and vocational education. At the graduate level, master's degree programs are available in business administration, biology, criminal justice, education, English composition, health services administration public administration, and rehabilitation counseling.

Students who wish to pursue a late-day degree-completion program in other fields should consult with the department of their proposed major regarding the availability of required courses and then apply for admission to the university in the usual manner.

## Centers and Institutes

The university sponsors the following institutes which are interdisciplinary in nature and are comprised of faculty from a number of different schools

**Community-University Partnerships Institute.** Director Diane Podolske, (909) 537-5793. Established to advance partnerships with the community that will improve the overall quality of life and health in the University's service area, with five focus areas: culture and the arts, economic transformation, educational quality of the workforce and citizenry, health enhancement, and family and community enrichment.

**International Institute.** Co-directors: Rosalie Giacchino-Baker, College of Education, (909) 537-7537, and Elsa Ochoa-Fernández, Director, International Student Services, 537-5193. Established to lead the campus' globalization process by collaborating with university and community partners to develop, identify funding for, and promote academic programs, activities, and services that meet the international needs of our university and region and that make contributions to our global community.

**Office of Technology Transfer and Commercialization (OTTC).** Director: Timothy Garrity, (909) 537-7766. Established to help promote the growth of high-tech businesses, generate job growth, and economic development in the Inland Empire. Provides exemplary, timely and responsive business and research services to government agencies, private enterprise and academia in order to assist them in moving their technologies through the commercialization process.

**University Transportation Center.** Director, Norman King, (909) 537-5085. Established to focus on regional transportation needs and serving as a focal point within the Inland Empire to maximize the impact of local transportation initiatives.

### College of Arts and Letters

**Center for Prose Studies.** Directors, Jacqueline Rhodes and Ellen Gil-Gomez, Department of English, (909) 537-5026/5816. Established to remedy the lack of a rigorous collective effort devoted to the "product" of expository writing instruction and of the prose itself.

### College of Business and Public Administration

**Institute for Applied Research and Policy Analysis.** Co-directors, Shel Bockman, Department of Management, (909) 537-5733, and Barbara Sirotnik, Department of Information and Decision Sciences, (909) 537-5729. Established to meet the information needs of policy and decision makers in the Inland Empire, conducting applied business, social and public policy research, and offering research and related consulting services to the community, CSUSB faculty and centers on the CSUSB campus.

**Inland Empire Center for Entrepreneurship.** Director, Michael Stull, Department of Management; (909) 537-5708. An inter-departmental, multi-disciplinary collaborative established to promote the study and practice of entrepreneurship via education and training, information and expertise exchange, consulting and business assistance, research, and technology support using a variety of traditional and non-traditional modes. The Center is a student- and community-targeted entity linking the entrepreneurial needs of the Inland Empire to the education and scholarly expertise of faculty and students in the various academic units of California State University, San Bernardino.

### College of Education

**University Center for Developmental Disabilities (UCDD).** Director, Dwight Sweeney, Department of Educational Psychology and Counseling, (909) 537-3653. Established as a clinical training program of the College of Education, Special Education program for evaluation, assessment, training and support for autistic children, their parents and siblings.

**CSUSB Center for Equity in Education.** Director, Juan Gutierrez, Department of Leadership, Curriculum and Instruction, (909) 537-5625. Established for program development, research and evaluation related to providing equitable education for students at



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all levels of the educational system. Special focus on special needs students in the public schools with different cultural and linguistic backgrounds.

**CSUSB Literacy Center.** Directors, Diane Brantley, Steve Comadena, Mary Jo Skillings, Department of Language, Literacy and Culture, (909) 336-5639/5605. Provides systemic tutorial assistance in reading, writing and oral language for students across the K-12 grade levels as well as adults seeking empowerment and better life opportunities through literacy.

**CSUSB Center for the Study of Correctional Education.** Directors, Carolyn Eggleston and Thom Gehring, Department of Educational Policy and Research, (909) 537-5654/5653. Established to serve teachers who work in prisons and juvenile institutions. Conducts major assessment studies, program evaluation, and program development activities under contract with clients such as the California Department of Education, the California Department of Corrections and Youth Authority, as well as institutions overseas.

**CSUSB Environmental Education Resource Center.** Director, Darlene Stoner, Department of Educational Policy and Research, (909) 537-5681. Regional environmental education materials and curriculum resource center.

### College of Natural Sciences

**Center for the Enhancement of Mathematics Education.** Director, Davida Fischman, Department of Mathematics, (909) 537-5394. Established to serve as a vehicle for identifying, analyzing, and addressing the needs of mathematics teachers in the Inland Empire.

**Water Resources Institute.** Director, Susan Lien Longville, (909) 537-7684. Development of an extensive collection of current GIS-based data and historical records related to water, including aspects such as water rights, quantity, quality, treatment and management. Supports, coordinates and conducts research in all water-related areas. Many of these programs require the help of student assistants, particularly in the areas of computer science, history, geology and geography. Students are encouraged to learn more about the WRI from its web site, [wri.csusb.edu](http://wri.csusb.edu), or at the WRI Office on the fourth floor of Pfau Library.

### College of Social and Behavioral Sciences

**Institute for Child Development and Family Relations.** Director Sybil Carrere, Department of Psychology, (909) 537-7570. Established with four main components: 1) a model laboratory school for both typically and atypically development infants through kindergarten-aged children, 2) a child assessment and development center, 3) a parenting and family relations resources center, and 4) the university center for developmental disabilities which serves children with autism and other pervasive developmental disabilities.

**Learning Research Institute.** Director, James Kaufman, Department of Psychology, (909) 537-5570. Established to promote interdisciplinary scholarly focus on teaching and learning and how it may be improved

**Center for Criminal Justice Research.** Directors, Dale Sechrest and Gisela Bichler, Department of Criminal Justice (909) 537-5548/5510. Established to provide expertise and research assistance to criminal justice agencies and organizations.

**California Council on Economic Education.** Director, Jim Charkins, Department of Economics, (909) 537-5494/5553. State-wide headquarters of the California Council on Economics Education which supports and encourages programs that provide K-12 teacher training in the economics method/enhancing K-12 economics curricular offerings to include information on the US economy, the world economic system, and the economic content of various social and political issues.

**CSUSB Community Counseling Center.** Director, Ed Teyber, Department of Psychology, (909) 537-5569. Established as a service/training clinic to provide low-cost or free counseling service to individuals from the community and to provide a training site for graduate students therapists-in-training.

**Center for the Study of Hate and Extremism.** Director, Brian Levin, Department of Criminal Justice, (909) 537-7711. Established to conduct research, formulate policies and serve as a community resource in the areas of hate and extremism.

**Center of Islamic and Middle East Studies (CIMES).** Director, Ralph Salmi, Department of Political Science, (909) 537-5539. Established as a teaching and research center to serve the region, and the CSU by supporting the development of cross-disciplinary curricula, language programs in Arabic, Turkish and Farsi, and research on issues related to the Middle East in world affairs.

### International Programs

<http://www.gateway.calstate.edu/csuienet/>

Developing intercultural communication skills and international understanding among its students is a vital mission of The California State University (CSU). Since its inception in 1963, the CSU International Programs has contributed to this effort by providing qualified students an affordable opportunity to continue their studies abroad for a full academic year. More than 15,000 CSU students have taken advantage of this unique study option.

International Programs participants earn resident academic credit at their CSU campuses while they pursue full-time study at a host university or special study center abroad. The International Programs serves the needs of students in over 100 designated academic majors. Affiliated with more than 70 recognized universities and institutions of higher education in 20 countries, the International Programs also offers a wide selection of study locales and learning environments.

Australia	Griffith University Macquarie University Queensland University of Technology University of Queensland University of Western Sydney Victoria University
Canada	The universities of the Province of Quebec including: Bishop's University Concordia University McGill University Université Laval Université de Montréal Université du Québec system
Chile	Pontificia Universidad Católica de Chile (Santiago)
China	Peking University (Beijing)
Denmark	Denmark's International Study Program (the international education affiliate of the University of Copenhagen)
France	Institut des Etudes Françaises pour Étudiants Étrangers, L'Académie d'Aix-Marseille (Aix-en-Provence), Universités de Paris III, IV, V, VI, VII, VIII, IX, X, XI, XII, XIII, the Institute of Oriental Languages and Civilizations, and Université Evry
Germany	University of Tübingen and a number of institutions of higher education in the Federal state of Baden-Württemberg
Ghana	University of Ghana, Legon
Israel	Tel Aviv University The Hebrew University of Jerusalem University of Haifa

Italy	CSU Study Center (Florence) Università degli Studi di Firenze La Accademia di Belle Arti Firenze
Japan	Waseda University (Tokyo)
Korea	Yonsei University (Seoul)
Mexico	Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Querétaro
New Zealand	Lincoln University (Christchurch) Massey University (Palmerston North)
South Africa	University of Kwazulu Natal Nelson Mandela Metropolitan University
Spain	Universidad Complutense de Madrid Universidad de Granada
Sweden	Uppsala Universitet
Taiwan	National Taiwan University (Taipei) National Tsing Hua University
United Kingdom	Bradford University Bristol University Hull University Kingston University Sheffield University University of Wales, Swansea
Zimbabwe	University of Zimbabwe (Harare)

The International Programs pays all tuition and administrative costs for participating California resident students to the same extent that such funds would be expended to support similar costs in California. Participants are responsible for all personal costs, such as transportation, room and board, living expenses, and home campus fees. Financial aid, with the exception of Federal Work-Study, is available to qualified students.

To qualify for admission to the International Programs, students must have upper division or graduate standing at a CSU campus by the time of departure. Students at the sophomore level may, however, participate in the intensive language acquisition programs in France, Germany, and Mexico. California Community Colleges transfer students are eligible to apply directly from their community college. Students must also possess a current cumulative grade point average of 2.75 or 3.0, depending on the program for which they apply. Some programs also have language study and/or other coursework prerequisites.

Additional information and application materials may be obtained from Dr. Rueyling Chuang, Communication Studies Department on campus at (909) 537-5780 or [rchuang@csusb.edu](mailto:rchuang@csusb.edu); or by writing to the California State University International Programs, 401 Golden Shore, Sixth Floor, Long Beach, California 90802-4275.

## National Student Exchange Program

Badger House, Room 112,  
(909) 537-5239 [www.nse.org](http://www.nse.org)

California State University, San Bernardino is a member of this cooperative program which allows selected students to spend up to a year at one of 168 U.S. colleges. These campuses are located in 48 states, District of Columbia, Puerto Rico, Guam, Virgin Islands and Canada. The exchange student pays either normal California State University, San Bernardino fees or "in state" tuition at the host institution.

This exchange encourages students to see another part of their own country, live and work in a different academic environment, and pursue specialized courses not offered at Cal State. All course work taken while on exchange is approved by an advisor and then evaluated by the records office before leaving campus. Thus, there is no loss of time or credits.

Students normally apply in the winter of their freshman or sophomore year and are screened and placed during March for

the next academic year. To qualify, students must have a 2.5 grade point average.

## Foundation for CSUSB

(909) 537-5918 <http://adminfin.csusb.edu/foundation>

The Foundation for CSUSB is a nonprofit, self-financed corporation chartered to support the University in fulfilling its mission. It oversees non-state appropriated revenues derived from administration of grants and research, manages investments and endowments, administers scholarships, and manages the university's commercial operations including the Coyote Bookstore, Foundation Dining Services, and the Children's Center. A Board of Directors whose membership is drawn from the community, administration, faculty and student body governs the Foundation, and a professional staff manages its operations. During the 2006-07 academic year, the Foundation administered revenues in excess of \$50 million and a payroll of 1,676 full and part-time employees.

## Coyote Bookstore

(909) 537-5966 [www.coyotebooks.com](http://www.coyotebooks.com)

The Coyote Bookstore is owned and operated by the Foundation for CSUSB and supports the campus community through its operations by providing a variety of goods and services. In addition to carrying all course-required textbooks, the Coyote Bookstore has hundreds of items for sale, including school and office supplies, backpacks, fashionable CSUSB clothing, gifts, stationery and greeting cards, computers, computer software and supplies, general books, health and beauty aids, and various food, beverage and snack items. A satellite bookstore is operated at the Palm Desert campus to serve students, faculty and staff at that location.

Services available at Coyote Bookstore include year-round book buy-back, special orders in all departments, free gift wrapping for purchases made at Coyote Bookstore, gift certificates and discounted magazine subscriptions. Students, faculty and staff enjoy educational discount prices on computer hardware, peripherals and software.

**Coyote Express - Convenience Stores.** Three convenient locations make the Coyote Express convenience stores the perfect solution to the busy college lifestyle offering a wide variety of pre-packaged sandwiches and salads, cold drinks, coffee, espresso drinks and tempting snacks, perfect for on-the-go dining. Scantrons, bluebooks, *Class Schedules*, and course catalogs may also be purchased at the Coyote Express stores. Cash, credit, and Coyote One Card Flex Cash accepted.

The Express stores are located outside of the Social and Behavioral Sciences Building, on the second floor of Jack Brown Hall, and in the Santos Manuel Student Union

## Sponsored Programs Administration

(909) 537-5929

The Foundation for California State University, San Bernardino is the designated "Sponsored Programs Administrator" at the campus. Sponsored Programs Administration manages the external funding for research, scholarly activity, faculty enhancement, and other university programs. This funding provides research capabilities for faculty, student employment, tuition or stipends for students in selected programs, and funding for campus infrastructure. During the 2006-07 academic year, Sponsored Programs administered revenues in excess of \$30 million.

## Dining Services

(909) 537-5917

Dining services are provided throughout the University by Foundation Dining Services. The Commons Dining Hall, located on the upper floor of the Commons building, is the perfect location to sit down and relax while enjoying a delicious meal. The menu features a variety of options including flavorful Mexican cuisine, a fresh, build-your-own salad bar, zesty Italian dishes, a soup station, grilled-to-order burgers, a variety of grab-n-go items, a made-to-order sandwich station and an array of snacks and drinks. The newly remodeled facility features a wall of windows that offers diners a beautiful view of the mountains for a relaxed, upscale atmosphere.

The Coyote Café is located in the Santos Manuel Student Union. This food-court-style eatery features a number of national food chains including KFC, Pizza Hut, Taco Bell and a Starbucks coffee house. In addition to the national brands, the Coyote Cafe features great burgers, a sandwich station and a pub.

Foundation Dining Services Catering Department offers full-service catering for all types of on- and off-campus events including weddings, banquets, retirement dinners, special department luncheons, and private parties.

## CSU Soda Springs Desert Studies Center

[//biology.fullerton.edu/dsc](http://biology.fullerton.edu/dsc)

The Desert Studies Center, a desert field station in the Mojave Desert, is available for use by CSU faculty, students and other universities and agencies. The Center is located in the Eastern Mojave Desert, eight miles southwest of Baker, California, in the Mojave National Preserve and adjacent to areas of critical ecological concern.

The Center contains the habitat of the Mohave Tui chub, a federally registered, endangered species of fish. Dormitory, bath house, kitchens, lecture rooms, laboratory, computer lab, and library facilities are available to support classes and individuals conducting independent study projects and research.

The Center offers a variety of short-term courses on desert-related topics and hosts field-oriented courses in anthropology, archaeology, art, biology, geography, geology, history and physics. The Desert Studies Office can supply information to those seeking to use or visit the Desert Studies Center or phone (714) 278-2428; e-mail: [WPresch@Fullerton.Edu](mailto:WPresch@Fullerton.Edu).

# STUDENT LIFE

## Housing and Residential Life

Office of Housing and Residential Life  
(909) 473-7800 [www.housing.csusb.edu](http://www.housing.csusb.edu)

Living on campus is one of the best and easiest ways to become involved at Cal State, San Bernardino! The "Villages at CSUSB" offers on-campus housing for students in three residential environments: Serrano Village, Arrowhead Village, and University Village. Living on campus is a significant part of the CSUSB experience for approximately 1500 students.

Serrano Village is specifically designated for first-year students (freshmen) who are interested in living on campus as part of their overall transition to college life. Each of the eight residence halls is made up of five suite areas with approximately 10 students in each suite sharing a study room and bathroom facility. With double and single rooms available, students can experience the benefits of community living. Each residence hall has a main lounge, common kitchen area, laundry facility, and a sun deck. Students who live in Serrano Village are required to purchase a campus meal plan through Foundation Food Services (909) 537-5916.

Arrowhead Village is an environment available for upper class students who are interested in experiencing a more independent style of living. Arrowhead Village features single occupancy rooms, two bathrooms, and with up to four students per apartment. There are also a limited number of studio apartments. Each apartment includes a furnished living room and bedroom and is equipped with full kitchen facilities. Common area facilities within Arrowhead Village includes study rooms and lounge areas. Each building has an elevator and is accessible for individuals with disabilities. Laundry facilities are available to apartment residents in a separate facility adjacent to the apartments.

University Village is an environment for upper-class students and is considered "premier living" with private bedrooms for each resident. Most apartments are 4 bedrooms with 2 bathrooms or 2 bedrooms with 1 bathroom units. There are also a limited number of 4 bedroom and 4 bathroom apartments. Each apartment is equipped with a furnished living room and full kitchen, complete with a microwave and dishwasher. Each building has an elevator and is accessible for individuals with disabilities. Laundry facilities are located on each floor.

On-campus residents enjoy the benefits of high-speed internet access (wireless internet connection at Serrano Village) and digital cable service. The Housing and Residential Life staff is available 24 hours a day to assist students with safety and emergency needs. Residents of Serrano and Arrowhead Villages have access to the Village Square which features a large-screen TV, game tables, and lounge space. Outdoor recreation includes barbeque grills, patio seating, volleyball court, basketball court, sun deck, and swimming pool. Residents of University Village have access to the Community Center which features a large screen TV, game room, fitness center, computer room, and study areas. Outdoor recreation includes barbeque grills, patio seating, sun deck, and a swimming pool. All amenities are available for residents to relax and meet with friends.

The Residence Hall Association (RHA) organizes student programs for the residents of the "Villages." Each year, an executive board and the Village Council offer a variety of opportunities to help make living on campus an exciting and rewarding experience. Movie nights, hall competitions, trips, and study break activities are among the more popular programs sponsored by RHA in the past.

The Housing and Residential Life staff includes 30 Resident Assistants who live in the Serrano, Arrowhead, and University Villages. These undergraduate and graduate student staff members

have been specifically trained to assist students with personal and academic needs. They are an important part of the overall on-campus housing operations, facilitating the community living experience and enforcing community policies and standards. The Resident Assistant staff is supervised closely by an Area Coordinator of Residential Education. These professionals bring extensive skills and experiences to CSUSB. Directly responsible for a specific area, each Coordinator lives on campus and provides immediate support for the residents of the Villages.

Living in any of the Villages is reasonably priced when compared to the rapidly rising costs of utilities and commuting and has the advantage of priority registration, assigned parking, and being near academic and classroom buildings, the Pfau Library, and all campus activities. The Housing and Residential Life staff seeks to make financial arrangements as convenient as possible and offers multiple payment options as well as working with financial aid.

The cost to live in Serrano Village for 2008-09 is projected to be \$479 per person, per month for a double room, \$597 per month for a single room, and \$649 per month for a super single room. Rental rates in Arrowhead Village for the 2008-2009 academic year are projected to be \$670-700 per month for a private, single occupancy bedroom, \$809 per month for a private studio and \$824 per month for a super single 2 bedroom, 2 bathroom unit. Rental rates in University Village for the 2008-09 academic year are projected to be \$711 per month for a 4 bedroom, 2 bathroom unit; \$798 per month for a 2 bedroom, 1 bathroom unit; and \$814 for a 4 bedroom, 4 bathroom unit. All rates are based on the academic year of September through June; 12-month contracts are available upon request at a discounted rate. Spaces are rented on a per-bed basis rather than per-apartment which allows students to be responsible for just their bed space and not for additional rent should one or more roommates move out before the end of the contract.

On-campus housing in Serrano Village is guaranteed for first-year students who apply by the priority deadline of May, 2008. Student are encouraged to apply for housing as early as possible to ensure priority in the room selection process.

## Associated Students, Inc. (ASI)

ASI's mission is: "To Serve Students." In support of this mission, ASI funds many projects, events and activities enriching campus life. For example, the ASI Box Office offers discount tickets to local area movie chains, Magic Mountain, Knott's Berry Farm, Universal Studios, and Sea World to name just a few. ASI supports the College Legal Clinic providing free legal advice to students through a panel of attorneys. ASI annually grants funding for student research and travel so that students may pursue research projects or present papers at conferences. Other areas enjoying ASI funding support are the ASI Activities Board which puts on such events as movie, karaoke, open mic nights and more; the Club Allocation Budget which supports clubs and their programming efforts; and the Associated Students Productions which brings major talent to campus and cosponsors entertainment events with the Coussoulis Arena. While all these activities are important, ASI's real value lies in its ability to provide a setting in which leadership skills are developed. Every spring campus-wide elections are held to elect the President, the Executive Vice President, the Vice President for Finance, the Vice President for University Affairs, Vice President for the Palm Desert Campus, and the members of the ASI Board of Directors from amongst the student body. These student leaders set ASI policy, interact with the University's senior management, and voice student issues and concerns to the faculty, administration and state legislators. Many of our alumni have gone on to very successful careers in education, business, medicine, law, etc., and all of them who stay in touch cite their experience at ASI as a very positive factor in their development and success. All regularly matriculated students are member of ASI.



## Activities

The diverse interests and lifestyles of students are reflected in numerous activities sponsored by the university and the Associated Students, Inc. (ASI). These programs include dances, drama productions, choral concerts, quarterly festivals, musical concerts, guest lecturers and small group socials.

The university and ASI encourage and aid the formation of organizations which enhance the educational opportunities of students. These organizations involve students, faculty, and staff working together in professional, recreational, educational, political, service, religious and cultural activities. University-recognized groups have full use of campus facilities in planning their programs.

## Santos Manuel Student Union

The Santos Manuel Student Union (SMSU), through its programs and facilities, is a focal point of the campus where students, faculty, staff, administration, alumni and guests develop an enduring connection to the university. As a campus center, the SMSU assists in the retention and development of students, while encouraging a deeper understanding and appreciation of cultural pluralism, gender equity and ethnic diversity by providing a variety of cultural, social, educational and recreational activities which create an environment conducive to personal growth and development. As a bridge between formal learning and life experience, co-curricular activities coordinated by the SMSU serve as a training ground for development of student leaders. Planned activities also provide students with leadership opportunities and employment which yield an agenda of events intended to promote interaction as well as relaxation, entertainment and social opportunities. As the meeting place on campus for students and their organizations, the physical facilities provide a comfortable and relaxing environment that facilitates the delivery of services important to the university community.

The SMSU includes lounge areas, study lounges, the Coyote Cafe, the Pub, Starbucks, Coyote Express convenience store, theatre, game room and a spacious enclosed courtyard. Offices for the Associated Students, Inc., the Office of Student Leadership and Development, meeting rooms for organizations and a 1,000-seat Events Center used for major events are a part of the facility. Services provided in the Student Union include an Automatic Teller Machine, free notary services to students, graphics services, college ring sales and Student Union scheduling.

The **Adult Re-Entry Center (ARC)** offers support for non-traditional students by providing a variety of programming that address both the academic and social needs of mature students. The ARC provides resources and referrals for services both on campus and in the community as well as providing a place where students of various cultures, orientations and life experiences can gather for support. Committed to diversity, the ARC welcomes students from various cultures, orientations and life experiences.

The **Cross Cultural Center (CCC)** focuses on issues of race and ethnicity in its mission to provide a space for students from all racial and ethnic groups. Its programs, workshops, advising and support services combine to create a place for students to explore issues of identity, develop political and social consciousness, facilitate educational goals and create communities that benefit both individual students and the entire campus.

The **Pride Center** provides a safe, friendly environment for Lesbian, Gay, Bisexual, Transgender, Intersex, Queer, Questioning and Allied students, faculty and staff. The Pride Center provides programs and services to aid in students' personal, educational, cultural, social, political, and professional growth and to foster a sense of community. The Pride Center is committed to providing services to LGBTIQ students of all cultures, backgrounds, religions, classes, ethnicities, genders and sexual orientations. In addition the Pride Center provides a meeting place for the Lesbian, Gay, Bisexual, Transgender and Straight Alliance.

**Program Board.** The Student Union Program Board promotes a sense of community at Cal State, San Bernardino through exciting, entertainment-oriented events such as movie showings, bands, karaoke and contests held in the Student Union. Student members develop leadership abilities through training sessions, hands-on event management experience, and team building opportunities. Members of the Board also develop their overall understanding of event management as it related to budgets, marketing, negotiating, creativity, statistical reports and research.

The **Women's Resource Center (WRC)** provides support for students by offering a variety of programming which focus on issues that affect the lives of women, including the annual Activism Conference. The WRC is a place for women to gather, to gain support, and learn tools for social change and also helps students access both on and off campus referrals and resources. Committed to diversity, the WRC welcomes students from various cultures, orientations and life experiences.

## Coussoulis Arena

Arena Management Office, HP-121

(909) 537-7360 <http://arena.csusb.edu>

Coussoulis Arena is the largest indoor facility in the Inland Empire (nearly 5,000 seats), serving Cal State, San Bernardino with quality facilities for the kinesiology classes, Coyote athletic games and practices, student recreational sports programs and university events such as commencement. Additionally, the arena has hosted several special events including:

- Sesame Street Live
- Ja Rule
- Sammy Hagar
- Sugar Ray and Everlast
- Dwight Yoakam
- The Harlem Globetrotters
- Howie Mandel
- Dr. Maya Angelou
- The Peking Acrobats
- JoDee Messina
- STYX

Students can gain firsthand knowledge and experience by working part-time in the Arena, learning about all aspects of events management from ticketing, marketing, house operations, sound, lighting and production for concerts.

## Intercollegiate Athletics

An intercollegiate athletics program was implemented in the 1984-85 academic year. It is an NCAA, Division II program with basketball, and soccer for both women and men; cross country, softball, water polo, volleyball and tennis for women; and golf and baseball for men.

The university mascot is the Coyote and the colors are columbia blue and black.

## Coyote Orientation

Student Leadership and Development

(909) 537-5234 <http://studentleadership.csusb.edu>

Coyote Orientation offers dynamic programming for freshmen, parents, transfer students, and re-entry students in order to equip students with the information needed to better manage their transitions to the university. These programs prepare students for academic success, provide knowledge of university resources, encourage involvement in student activities, and help build meaningful relationships. Each Coyote Orientation program is designed to minimize anxiety and to promote positive attitudes about the student's success at the university. In addition, there are leadership opportunities for students to serve as Coyote Orientation Leaders and on the Coyote Orientation Planning Committee.

## Student Clubs and Organizations

Student Leadership and Development

(909) 537-5234 <http://studentleadership.csusb.edu>

CSUSB is home to more than 100 student clubs and organizations that offer a wide range of roles and responsibilities that will accommodate a variety of interests and talents. Students can experiment with different roles that will help them identify their own strengths, weaknesses and preferences. Academic, cultural, religious, service and political organizations are just a few examples of the types of clubs open to students. Membership in any student club or organization is an excellent way to enjoy all the benefits that college life has to offer, and it is one way to make the campus seem more like home. Students can learn how to lead an organization and conduct effective meetings and elections as well as develop communication and mediation skills, and improve their public speaking skills. Clubs and organizations provide ready-made laboratories for students to strengthen their leadership skills and opportunities to test classroom learning in a real-world setting.

## Fraternity and Sorority Life

Student Leadership and Development

(909) 537-5234 <http://studentleadership.csusb.edu>

Greek Life is a great way to get involved on campus, and CSUSB is home to eighteen fraternities and sororities. Each fraternity and sorority contributes to campus life, helps the surrounding community and assists in the development of leadership skills for each of its members. Joining a fraternity or sorority is a lifelong commitment. It is a commitment to sisterhood or brotherhood, to high standards of scholarship and moral conduct, and it is a commitment to yourself to strive for ideals stated by the founders of each organization, most, over 100 years ago. Greek organizations are rich with tradition, and members are often known for their involvement in philanthropic endeavors (also known as community service). In addition to the fraternities and sororities on campus, governing councils and Greek Honor Societies exist to foster relationships between the organizations and to set high scholarship standards.

## Leadership Education

Student Leadership and Development

(909) 537-5234 <http://studentleadership.csusb.edu>

The Leadership Academy is a comprehensive certificate program that offers skills-building workshops focusing on Individual Development, Organizations and Community, and Diversity. The Academy includes personal assessment of students' leadership potential and a strong focus on personal reflection as a tool for growth and development. Participants work closely with high-caliber faculty, staff, alumni, and community members to complete the certificate which will be awarded at a special recognition program. Leadership Academy participants often describe the Academy as a life-changing experience, increasing their self-esteem and personal effectiveness. Many students successfully land jobs after graduation and credit the Leadership Academy with their success.

## Student Recreation and Fitness Center

(909) 537-BFIT <http://campusrec.csusb.edu>

The new Student Recreation and Fitness Center is proud to offer an exciting fulfillment of creative programs in the areas of fitness, wellness, intramural sports, aquatics, outdoor adventure and informal recreation. This brand new 37,000 square foot complex, located at the south end of campus, houses a 34' climbing wall, 8800 square foot fitness room, multi-purpose athletic court, locker rooms and two group activity rooms for aerobics, dance and martial arts classes. The Department of Recreational Sports is dedicated to providing a variety of safe and enjoyable programs and facilities to meet the diverse needs of the CSUSB community by creating a

healthy social environment, enriching the quality of life and enhancing the educational experience. All enrolled CSUSB students, staff, faculty and Alumni Association members regardless of age, gender, experience and ability are welcomed.

## Outdoors/Climbing Wall

The unique location of the campus at the foothills of the San Bernardino Mountains allows an enjoyment of a wide range of activities with close proximity to the Pacific coastline, the wilderness of Baja, the peaks of the Sierra Nevada Mountains, and the High Desert, including the beaches and the peaks and crags of Southern California as an extension of the university classrooms. Participants on outings will learn how to recreate safely in the great outdoors, develop an appreciation and understanding of the natural surroundings, experience personal growth and leadership development, learn teamwork and healthy communication skills, and of course... have fun. At the centerpiece of the Student Recreation and Fitness Center is a 34' climbing wall that will offer beginning and intermediate classes, open climb and special wall events. All equipment is provided for students and a safety orientation and skills test is offered to our participants.

- Backpacking
- Gear rental
- Skiing
- Day hikes
- Overnight excursions
- Snowboarding

## Intramurals

The Intramural Sports program offers a variety of sport leagues and tournaments for experienced athletes or those just looking to learn a new sport providing participants enjoyable, innovative and safe activities for all skill levels and interests.

- Basketball
- Flag football
- Soccer
- Tennis
- Dodge ball
- Golf
- Softball
- Volleyball

## Fitness/Wellness/Group Exercise

The Student Recreation and Fitness Center now offers one-on-one personal training, beginning weight training classes, nutritional evaluation and fitness assessments as a complement to our state of the art fitness room. The Group Exercise program offers over 15 classes per week. All programs are designed to enhance the participant's experience and facilitate healthy living habits.

- Bicycles
- Fitness assessments
- Functional training equipment
- Kickboxing
- Nutrition analysis
- Steppers
- Weight machines
- Elliptical trainers
- Free weights
- Hip hop
- Martial arts
- Plate loaded equipment
- Treadmills
- Yoga

## Aquatics

The swimming pool is located behind the Physical Education building. Hours vary and can be found on the webpage.

- Aerobics
- Diving boards
- Lap swimming
- Certification and training
- Informal water polo
- Learn to swim

## Informal Recreation

The hours of the Student Recreation and Fitness Center are designed to meet the busy lives of our participants with several opportunities from the early opening hour until the late evening closing. When there is not organized play in the gymnasium or group exercise rooms, drop-in use is allowed. Members can meet up with friends to shoot hoops, practice their hip-hop or toil their martial arts skills. Informal recreation hours will be posted outside of each of the three available rooms.



## Career Development Center

<http://career.csusb.edu>

The mission of the Career Development Center is to support the academic purpose of the University by providing comprehensive career services that result in the advancement of student learning and career success. The programs and services are designed to meet the career/life challenges of students and recent graduates who are planning for their future. Services include:

- Career counseling
- Workshops and presentations
- Education Job Fair, Career Expo, and special events
- Job listings (full time and part time) including a Job Kiosk (classifieds from seven newspapers)
- Employer information tables and sessions
- On campus interviews and recruitment
- Monstertrak and Interviewtrak
- Resume critiques (in person and on-line) and mock interviews
- Interest assessment testing
- Career Resources Library and Computer lab with access to internet job searches
- Employer files and research
- San Manuel Internship Program

Visit <http://career.csusb.edu> or stop by in person to learn more about these valuable services.

## Financial Aid

Financial Aid Office

(909) 537-5227 <http://finaid.csusb.edu>

The Financial Aid Office administers a variety of Federal and State programs to assist eligible students. Sources of aid include the Federal Pell Grant, Academic Completeness Grant (ACG), National Smart Grant, the Supplemental Educational Opportunity Grant (SEOG), Cal Grant A/B, Federal Direct Loans, the Perkins Loans

and the Work-Study program. The Federal Direct Student Loans, Direct Plus Parental Loans, and alternative loans are also available. The office also administers the Cal Grant, the State University Grant (SUG) and the Educational Opportunity Program Grant (EOP).

**Work-Study.** Work-Study is a federally funded program that provides part-time employment for students who are eligible to participate in need-based financial aid programs. Work-Study students are placed in on and off-campus positions to help offset a portion of their educational expenses. Work-Study at CSUSB also provides job opportunities for students to develop job skills and secure academic or career-oriented jobs. For additional information visit the Financial Aid website or contact the Student Employment Team at (909) 537-5226.

The Free Application for Federal Student Aid (FAFSA) must be submitted to the processor by March 2 each year. Late applications are accepted after March 2 and throughout the school year if funds are available. Apply online at <http://finaid.csusb.edu>. A full description of the university's financial aid programs is available on this website.

## Scholarships

Scholarships listed below are awarded to new and continuing students attending CSUSB. The CSUSB Financial Aid Office administers most scholarships on campus. Scholarships administered by the CSUSB Financial Aid Office can be applied for on-line at <https://finaid.csusb.edu> between January 1 through March 2 annually. Applicants need only to complete the on-line scholarship application once to be considered for all scholarships for which they are eligible. For further information, contact the Financial Aid Office's Scholarship Hotline at (909) 537-7399. Department majors and associations administer some of the scholarships listed below. Applications and further information about them may be obtained by calling the phone numbers listed at the end of each posting.

## Financial Aid Chart

<u>Types of aid</u>	<u>Who can help</u>	<u>Determination of eligibility</u>	<u>Repayment requirement</u>
<b>Scholarships</b>			
Local scholarships	High school or college counselor	GPA, need	no
University scholarships	University financial aid officer	GPA or GPA and need	no
<b>Grants</b>			
Federal Pell Grant	High school or college counselor	need	no
Academic Competitive Grant (ACG)	University financial aid officer	GPA/need/high school rigorous program	no
(SMART) National Science & Mathematics Access to retain Talent Grant	University financial aid officer	GPA/need/major	no
Federal Supplemental Educational Opportunity Grant (SEOG)	University financial aid officer	need	no
Cal Grant A/B, Fellowships	University financial aid officer		
	High school or college counselor	GPA, need	no
Federal Educational Opportunity Program Grant	University E.O.P. director or University financial aid officer	need	no
State University Grant (SUG)	University financial aid officer	need	no
<b>Loans</b>			
Federal Perkins Loan	University financial aid officer	need	yes
Federal Subsidized Direct Loan	University financial aid officer	need	yes
Federal Unsubsidized Direct Loan	University financial aid officer	enrollment	yes
Federal Direct Parent Loan to Undergraduate Students	University financial aid officer	enrollment	yes
Grad Plus Loan for Graduate Students	University financial aid officer	enrollment	yes
<b>Work-study</b> (on and off-campus)			
Federal work-study program	University financial aid officer	need	no

Other aid-related programs are available through the Veterans Administration, California State Rehabilitation, ROTC, Social Security, Bureau of Indian Affairs and other public assistance agencies. Please visit the Financial Aid website <http://career.csusb.edu>

## Scholarships for Incoming Freshmen

**Albert K. and Marilyn Karnig Family Scholarship** provides a \$500 scholarship to a full-time incoming freshman with a minimum 3.5 GPA. Exceptional artistic or other talent may compensate for the absence of a 3.5 GPA.

**Alfred F. and Chella D. Moore Scholarship Fund** provides approximately \$22,800 in scholarships to incoming freshmen with outstanding academic records (3.5 grade-point average minimum). The amount of each award is \$1,200; some awards may automatically be renewed for an additional three years for a total of \$7,200. No special application is required for renewal.

**Alumni Association Scholars Program** annually awards a \$3,000 scholarship, renewable for up to three years, to a graduating high school senior from the Inland Empire who has attained a 3.75 GPA in high school, has a SAT score of 1,000 or better, has demonstrated outstanding academic achievement as well as leadership in extracurricular school activities, community involvement, employment and/or personal situation.

**Aylmer Family Scholarship** is awarded to a new or existing Presidents Academic Excellence Scholarship recipient, and must be an undergraduate student.

**Bennet A. Meyers Scholarship** provides scholarships to incoming freshmen from San Bernardino City Schools with outstanding academic records (3.5 minimum GPA). The amount of each award is approximately \$1,200. Some awards may be renewed for an additional three years. No special application is required for renewal.

**Business Access and Opportunity Program** provides twelve scholarships to freshmen or transfer students who are economically disadvantaged, and have been accepted into the College of Business and Public Administration. Each award is approximately \$1,000. For more information, contact Dr. Mo Vaziri from the College of Business and Public Administration at (909) 537-5718.

**California State University Future Scholars Program** awards thirty \$1,000 scholarships to California students with disadvantaged backgrounds. This scholarship is funded by the California State Lottery.

**City of San Bernardino Confidential/Management Association (SBCMA) Scholarship** provides funds to help meet the cost of education including fees, books, expenses, room and board. Students must be enrolled at CSUSB, have a minimum GPA of 3.0. Preference is given to students with at least one parent employed by the City of San Bernardino or students who are the first person in their immediate family to attend college. Financial need is considered, but not essential.

**Donnie LaFluer Athletic Scholarship** is a scholarship awarded to an incoming freshman who will be playing for the CSUSB women's softball team. Initial awardees must be a softball pitcher. Subsequent awardees may be position players. Students must have a 2.5 GPA. The awardee will be selected by the CSUSB softball coach.

**Joseph K. Thomas Scholarship** is awarded to an incoming freshman or transfer student, registered as a full-time music major. Recipient must enter CSUSB with a high school or previous college or university cumulative GPA of 3.25 or better, must agree to participate fully in the major performing ensemble most appropriate to his/her applied performance emphasis during the entire academic year for which the scholarship is awarded, with the scholarship application form each candidate must submit a letter summarizing the student's degree of need for scholarship assistance. Candidates who meet the above criteria will demonstrate their music performance proficiency at an audition to be scheduled about four weeks following the application deadline. For more information, contact the Music Department at (909) 537-5859.

**Leslie I. Harris Scholarship** provides scholarships to incoming freshmen from San Bernardino City Schools with outstanding

academic records (3.5 GPA minimum). The amount of each award is approximately \$1,200. Some awards may be renewed for an additional three years. No special application is required for renewal.

**President Albert K. Karnig Scholarship** provides a \$1,000 scholarship to a full-time incoming freshman with a minimum 3.5 GPA. Exceptional artistic or other talent may compensate for the absence of a 3.5 GPA.

**President's Academic Excellence Scholarship** is awarded to local high school students who graduate within the top 1% of their high school graduating class. Students must be nominated by their high school counselor in order to be considered for this award. The amount of the scholarship is \$5,000 annually, and is renewable for up to three years. In order to maintain continued eligibility each year the recipient must complete a minimum of 36 units each year and maintain a 3.5 GPA.

**Robert C. Byrd Honors Scholarship** is a federally funded scholarship of \$1,500 awarded to incoming freshman students. Applications are available from high school principal/counselor. For application information, contact the California Student Aid Commission at (916) 526-7590.

**Robert and Claire Forsythe Scholarship** is awarded to an incoming freshman with a minimum 2.0 GPA, and is enrolled at CSUSB at least 6 quarter units. Preference will be given to Arts and Letters majors. The most recent award was \$300.

**Shervin Tehranchi Scholarship** provides two \$500 scholarships to full-time incoming freshmen, priority given to students who are active participants in athletics and can demonstrate a strong athletic spirit and talent for sports, and have an overall minimum 3.0 GPA.

## Scholarships for College of Arts and Letters

**Anthony and Lois Evans Scholarship** is awarded to a student with a minimum GPA of 3.5 who is involved in student performance activities such as music, theatre art or debate/forensics. The annual award is approximately \$450.

**Arlene Roberts Memorial Scholarship** provides an award to a full-time art major with a minimum 3.0 GPA, and who has financial need. The most recent award was \$750.

**California State University, San Bernardino Music Department** provides 10 merit scholarships totaling \$10,000 to students who have demonstrated above average proficiency with a musical instrument and have performed with a related university organization. For more information, contact the Music Department at (909) 573-5859.

**California State University, San Bernardino Theatre Arts Department** provides 10 scholarships totaling \$12,100 to students who have demonstrated excellence in the field of theatre arts. For more information, contact the Art Department at (909) 537-5876.

**Century 21 Lois Lauer Realty Scholarship** provides a scholarship to a student enrolled in Liberal Arts, College of Business and Public Administration, or College of Education at any grade level. Applicants must have graduated from high school in either San Bernardino or Redlands, and must have financial need. The most recent award was for \$350.

**Dora J. Prieto Scholarship** is awarded to a student with a minimum 2.5 GPA and has financial need. Preference will be given to students enrolled in Anthropology as a major, or to a student interested in activities affiliated with a museum.

**Dr. Arthur A. Moorefield Scholarship** is awarded to a full-time music major at CSUSB, and has a cumulative GPA of 3.3 or better. The most recent award was \$1,200. For more information, contact the Music Department at (909) 537-5859.

**Dr. Carol Channing and Mr. Harry Kulljian Scholarship** provides scholarship funds to full-time students pursuing a degree in visual or performing arts or a teaching credential in art education. Have a minimum GPA of 3.0 and be a U.S. citizen or permanent

resident. Recipients will be selected by the College of Arts and Letters.

**Friends of the Edward Dean Museum and Gardens Scholarship** provides an award for students majoring within the Department of Art with an emphasis on Art History, Art Education or Studio Art; must be at least a junior to qualify, must have a minimum GPA of 3.0 or better, and demonstrate an interest in developing a career in Art History, Museum Studies or Art Education. Financial need considered but not essential. Student will complete a CSUSB and Edward Dean Museum supervised project-oriented internship at the Edward Dean Museum working within the Permanent Collection. Project time and student scheduling to be arranged and developed between CSUSB, Edward Dean Museum and the scholarship recipient. Project will be a year-long project.

**Gerry and Glenda Bayless, College of Arts and Letters Scholarship** provides funds to meet the cost of education—fees, books, expenses, room and board. Students must be enrolled in the College of Arts and Letters and have a minimum GPA of 3.0, financial need a consideration but not essential.

**Joseph K. Thomas Scholarship** is awarded to an incoming freshman or transfer student, registered as a full-time music major. Recipient must enter CSUSB with a high school or previous college or university cumulative GPA of 3.25 or better, must agree to participate fully in the major performing ensemble most appropriate to his/her applied performance emphasis during the entire academic year for which the scholarship is awarded, with the scholarship application form each candidate must submit a letter summarizing the student's degree of need for scholarship assistance. Candidates who meet the above criteria will demonstrate their music performance proficiency at an audition to be scheduled about four weeks following the application deadline. For more information, contact the Music Department at (909) 537-5859.

**P. Richard Switzer Scholarship** is awarded to CSUSB students who are enrolled in the CSU International Program or another approved academic program in France, who continue as full-time students during their study abroad period. Preference will be given to students with financial need but consideration will be given to others based on merit. To apply, contact the Department of World Languages and Literatures at (909) 537-5847.

**Taewoong and Soonja Oh Kim Scholarship** provides an award to a student majoring in the Art Department, has a minimum 3.2 GPA, and demonstrates an interest in pursuing a career in the Visual Arts. Financial need is considered but not essential. The most recent award was \$500.

**Vivien Bull Scholarship** provides a \$400 scholarship to a student with a minimum grade point average of 3.0. The student must have completed at least 24 quarter units at CSUSB, and be majoring in Liberal Studies with the goal of entering the teacher credential program.

## Scholarships for College of Business and Public Administration

**Accounting Research Scholarship** provides two \$500 scholarships to undergraduate students who have a declared concentration in accounting, a cumulative GPA of at least 3.0 and an accounting GPA of 3.0 or higher. Recipients will be selected from an open competition of research proposals submitted to the Department of Accounting and Finance.

**Arrowhead Credit Union Scholarship** provides two \$2,500 annual awards to undergraduate or graduate students who are enrolled full time in the College of Business and Public Administration or the College of Social and Behavioral Sciences. A \$500 scholarship is awarded to a student interested in international affairs.

**Arthur L. Littleworth Scholarship in Water Resource** provides scholarships to CSUSB students who are residents of California, have a minimum 3.0 GPA, and enrolled in any CSUSB degree

program that offers a concentration in water resources or the MPA in Water Resources Management, demonstrates leadership qualities, and has financial need.

**Bernard C. Kersey Scholarship** provides a \$500 award to a student enrolled in the CSUSB's Water Resources Institute degree program, has a minimum GPA of 3.0, and demonstrates an interest in continuing in the water resources field. Financial need is considered but not essential.

**Beverly Smith Scholarship** is awarded to a student majoring in finance or ecology, and must have and maintain a 3.0 GPA. The most recent award was \$600.

**Business Access and Opportunity Program** provides twelve scholarships to freshmen or transfer students who are economically disadvantaged, and have been accepted into the College of Business and Public Administration. Each award is approximately \$1,000. For more information, contact Dr. Mo Vaziri from the College of Business and Public Administration at (909) 537-5718.

**California State University, San Bernardino Department of Public Administration** selects an annual recipient of the **Caroll J. Bellis Scholarship**. This \$200 award is presented to a Public Administration major who has completed an outstanding research paper as part of the requirements for any class in public administration. The same department also administers the **Margaret King Gibbs Scholarship** which provides a \$100 scholarship to a graduate student enrolled in the Master of Public Administration degree program, based on an outstanding academic record and outstanding research project and/or papers completed as part of the requirement for the degree. For more information, contact the Public Administration Department at (909) 537-5758.

**Candace Hunter Wiest 2005 Arrowhead Distinguished Executive Officer Scholarship** is awarded to a student who is full-time, must be a sophomore or junior, must be a business major, must have a cumulative GPA of 3.25 and maintain a cumulative 3.25 GPA each quarter(s) in which the award is received.

**Century 21 Lois Lauer Realty Scholarship** provides a scholarship to a student enrolled in Liberal Arts, College of Business or Public Administration, or College of Education at any grade level. Applicants must have graduated from high school in either San Bernardino or Redlands, and must have financial need. The most recent award was for \$350.

**Charles and Shelby Obershaw Scholarship** provides scholarships to credential students in the College of Education, and to undergraduate business students. The award is for students that are at least a junior, have a minimum 3.0 GPA, and financial need. The most recent awards averaged \$1,000 each.

**Clifford Young, Ph.D. Scholarship** awards a \$1,200 scholarship to a student enrolled in the Masters of Public Administration Program at CSUSB, has a 3.0 GPA, demonstrates an interest to continue education beyond a master's degree, and has special interest in African-American culture.

**David Montano Memorial Scholarship** provides a \$600 scholarship to a junior or senior student who plans to continue his or her post-secondary education at California State University, San Bernardino.

**Dianne Wilkman Scholarship** provides a \$2,500 scholarship award to help meet the costs of education including fees, books, expenses, room and board. Students must have a cumulative GPA of 2.5 or higher and are preparing to enter their junior or senior year in the pursuit of a degree in the College of Business and Public Administration. Priority is given to first generation college students.

**Doyle A. Varner Memorial Scholarship** is awarded to a student who is a participating member of one of the university's intercollegiate athletics programs, and must be enrolled full-time with at least a 3.25 cumulative GPA. Preference shall be given to students majoring in a business or public administration program. The annual award is approximately \$316.



**Farouk El-Mahdy EL-Ahraf Scholarship in Public Administration/Local Government** offers a \$250 scholarship to a student who demonstrates excellence in the Masters in Public Administration Program and who is also a distinguished practitioner in the local government sector.

**Food Industry Sales Association Scholarship Honoring Jack Brown** offers five \$1,500 scholarships to students majoring in Business or Public Administration, available to sophomores, juniors, or seniors, and must have a minimum 3.0 GPA. Preference will be given to students employed in the food industry or demonstrate an intent of pursuing a career in the food industry. Financial need may be considered but academic excellence is the primary criterion for selection. Student scholarship recipients may reapply for up to four years.

**George H. Schnarre 2006 Arrowhead Distinguished Executive Officer Scholarship** is awarded to students who are majoring in the College of Business and Public Administration and have a cumulative 3.25 GPA. Preference given to students majoring in Real Estate, Finance, or Accounting.

**Hal Hoverland Scholarship** provides a \$500 scholarship to an accounting major who has completed Accounting 372 and has a 3.5 minimum GPA.

**Jack Scott Scholarship** provides a \$500 scholarship to a student majoring in accounting with a minimum 3.0 GPA.

**James Roddy Scholarship** is awarded to a student enrolled at CSUSB as a history major or in the College of Business and Public Administration, financial need considered but not essential.

**Janice Tillema Memorial Scholarship** awards a \$1,000 scholarship to a student with a minimum GPA of 3.0, living within Citizens Business Bank Service area which includes San Gabriel Valley, Inland Empire, and Orange County, must be a full-time undergraduate or graduate student, and must be a business major.

**Krieger and Stewart Scholarship Honoring James H. and Lois B. Krieger** for their Leadership Roles in California Water Policy provides scholarships to students based on academic achievement, career potential in water policy or water resources, as well as demonstrating outstanding individual character, and has financial need. Students majoring in the CSUSB B.S. in Geology, Environmental Geology concentration, or the Masters in Public Administration, water resource management program, are eligible to apply.

**Lois B. Krieger/Western Municipal Water District Scholarship** provides awards to students currently enrolled, or plan to enroll, in the Masters of Public Administration (MPA) program with a water resource management specialization in the College of Business and Public Administration, the B.S. in Geology, Environmental Geology concentration, or any future water-related majors developed at CSUSB. Must have a minimum GPA of 3.25, be currently employed in or expressed interest in pursuing a career in water, student must currently reside in Western MWD's 510 square mile service area (service area include: Jurupa, Rubidoux, Riverside, Norco, March Air Reserve Base, Corona, Elsinore, Temecula - west of the 15 freeway, Canyon Lake, Unincorporated areas around Lake Mathews, Unincorporated areas between Corona and Elsinore along the 15 freeway), and has lived in district for at least a year, financial need is considered but not essential.

**Nancy E. Smith Scholarship** is awarded to a full-time student majoring in public administration or political science who intends to pursue a career in public service. The most recent award was \$550.

**Poma Family Business Scholarship** provides two scholarships at \$2,500 each to students majoring in a discipline in the College of Business and Public Administration, demonstrates community service involvement, has financial need, and a minimum GPA of 2.9.

**Richard C. Moseley Marketing Scholarship** provides six \$1,500 scholarships and one \$1,000 scholarship to students majoring in Marketing, has a minimum 3.0 GPA, must be a sophomore, junior, or senior, and must be a full-time student. First preference will be given to employees of Stater Bros. Markets and immediate relatives of employees of Stater Bros. Markets. Second preference will be given to individuals employed in the supermarket industry as well as individuals who intend to pursue a career in the food industry. Financial need considered but not essential. For more information, contact the Marketing Department at (909) 537-5749.

**Ruben Ayala Scholarship** provides scholarships to students enrolled in the B.S. in Geology, Environmental Geology concentration or Masters in Public Administration with a water resource management program. Preference is given to students who have at least a 2.5 GPA.

**Spirit of Entrepreneur Scholarship** provides awards to CSUSB students in good standing, have a minimum 2.75 GPA, are a major/minor in Entrepreneurship at the undergraduate or MBA level, and must be enrolled in at least eight (8) units each quarter. Preference is given to those students actively involved in entrepreneurial or business club activities on campus (such as the Student Entrepreneurs Association or the CSUSB Student Business Plan Competition). Recipients will be expected to attend, as a VIP guest of Inland Empire Center for Entrepreneurship, the annual Spirit of the Entrepreneur Awards program in November, to be recognized for their achievement. Students must submit a maximum one page, single spaced essay addressing the following: a) Why an education in entrepreneurship is important to them, b) how they will use the education-what business they hope to start and why, c) what entrepreneurial company they admire and why, and d) how the scholarship will make a difference for them. For additional information, contact Mike Stull in the Inland Empire Center for Entrepreneurship Office at (909) 537-5708. A total of nine (9) awards were last given, averaging over \$1,000 each.

**Stratham Homes/College of Business and Public Administration Dean's Ambassador Scholarship** is available to students who are transferring to California State University, San Bernardino for the first time. For questions regarding this scholarship contact the College of Business and Public Administration at (909) 537-5700. The most recent award was \$3,500.

## Scholarships for College of Education

**Broc Burns Scholarship** is awarded to a CSUSB college junior, senior, or graduate student who is admitted to the credential program that leads to becoming an elementary school teacher. If at the graduate level, the student must have received a bachelor's degree at CSUSB. Preference will be given to a student who lives in the local mountain community, and who maintains a minimum 3.0 GPA. The most recent award was \$500.

**California Portland Cement** awards \$1,000 annually to a full-time student in a teaching credential program preparing them to teach math or science at the secondary level.

**California Retired Teachers Association** provides a \$2,000 scholarship to a senior or graduate student entering the field of teaching. The student is selected on the basis of financial need, academic achievement, and school and community activities. The most recent award was \$2,000.

**Carol Arline DeVault Scholarship** provides a \$500 award to a student enrolled in the M.A. in Education, Environmental Education option at CSUSB, and has a minimum 3.5 GPA. Preference is given to a student who provides volunteer service related to environmental education.

**Century 21 Lois Lauer Realty Scholarship** provides a scholarship to a student enrolled in Liberal Arts, College of Business or Public Administration, or College of Education at any grade level. Applicants must have graduated from high school in either San

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Bernardino or Redlands, and must have financial need. The most recent award was for \$350.

**Charles and Shelby Obershaw Scholarship** provides scholarships to credential students in the College of Education, and to undergraduate business students. The award is for students that are at least a junior, and have a minimum 3.0 GPA, and financial need. The most recent awards averaged \$1,000 each.

**Clara McKinney Scholarship** provides a \$700 scholarship to a student studying early childhood education with a minimum grade point average of 3.0. Consideration will be given to students who reside, or have resided, in the Barstow area.

**Community Foundation Serving Riverside and San Bernardino Counties** provides over \$30,000 in scholarships to full-time incoming freshmen, community college transfer students, and continuing CSUSB students. Some of the scholarship monies are awarded to graduate students in special education who intend on pursuing careers as special education teachers and nursing students. All other monies are awarded to students with any major, who have a minimum 3.0 GPA, and have financial need.

**Eva Mae Merchant Loan-Scholarship** is awarded annually to students in the Education and Nursing Departments. Each award is comprised of a \$1,350 scholarship and a \$1,350 no-interest loan. A total of \$10,800 is awarded.

**Margaret Lenz Scholarship** provides a \$300 scholarship to a student pursuing a teacher preparation credential.

**Marilyn Sauer Scholarship** provides a \$1,000 award to a student enrolled in the master's degree program in educational administration at CSUSB, and has a minimum GPA of 3.5.

**Martha Pinkney Scholarship** provides a \$1,000 award to a student enrolled at CSUSB at the senior or graduate level, in the teacher preparation program; preference will be given to applicants focusing on elementary education, student must be enrolled in at least 6 quarter units at the undergraduate level or 4 quarter units at the graduate level, and must maintain a minimum GPA of 3.0.

**National Center for Excellence in Distance Learning Scholarship** provides a \$200 scholarship for three students enrolled in the MA program in the College of Education, Education Technology track to help meet the cost of education including fees, books, expenses, room and board. Students must be enrolled in ETEC 676D, have a minimum GPA of 3.0, focus on topics in instructional technology that directly involve NCEDL development projects and demonstrate an interest to continue their education beyond their Master's degree.

**Pacific Premier Bank Scholarship Honoring Bing Wong for his Leadership in Scholarship Philanthropy** is provided to a student enrolled in the master's program in the College of Education or interested in pursuing a master's degree, and demonstrates an interest to continue education beyond a master's degree. Financial need is considered but not essential.

**Shelby Obershaw Teacher Education Scholarship** provides an award to a student in a teacher preparation program leading to the multiple subject or single subject credential at CSUSB. Applicants must have completed 12 units toward the credential and have a minimum 3.0 grade point average during their junior and senior years. The most recent award was \$1,950.

### Scholarships for College of Natural Sciences

**Bitoun Family Scholarship** provides a \$1,000 scholarship to help meet the cost of education including fees, books, expenses, room and board. Students must be enrolled in the nursing program and be a recipient of the Presidential Academic Excellence Scholarship.

**Community Foundation Serving Riverside and San Bernardino Counties** provides over \$30,000 in scholarships to full-time incoming freshmen, community college transfer students, and continuing CSUSB students. Some of the scholarship monies are

awarded to graduate students in special education who intend on pursuing careers as special education teachers and nursing students. All other monies are awarded to students with any major, who have a minimum 3.0 GPA, and have financial need.

**CSU/Edison Transfer Scholarship** will award 10 new scholarships annually to economically disadvantaged transfer students. Transfer students must be incoming from a community college located within the Southern California Edison service area. Preference will be given to students who are first generation college students. Demonstrated commitment to community service will also be considered. Students must enroll full time, have a minimum 2.0 GPA, and declare a major in one of the following: mathematics, physics, chemistry, geology, and engineering (civil, electrical, computer, chemical, or mechanical), ecological biology, technology, materials science, or computer science/information systems. Scholarship awards range from \$2,500 to \$5,000 per student.

**Eva Mae Merchant Loan-Scholarship** is awarded annually to students in the Education and Nursing Departments. Each award is comprised of a \$1,350 scholarship and a \$1,350 no-interest loan. A total of \$10,800 is awarded.

**Dr. Prem Reddy Academic Excellence Scholarship** assists in funding half of two President's Academic Excellence Scholarship recipients (PAES) annually who are from the High Desert Region, and are health care majors (i.e. nursing, pre-med, and health education). Students must maintain a 3.5 GPA and complete a minimum of 36 units each academic year.

**Katsuhiro Hoichi Scholarship** provides scholarships to students enrolled in a major under the College of Natural Sciences with priority given to nursing, computer science, and health-related careers, has a minimum 3.0 GPA, and has unforeseen financial need that endangers having to interrupt progress to degree. For more information, please contact the College of Natural Sciences at (909) 537-5300.

**Krieger and Stewart Scholarship Honoring James H. and Lois B. Krieger for their Leadership Roles in California Water Policy** provides scholarships to students based on academic achievement, career potential in water policy or water resources, as well as demonstrating outstanding individual character, and has financial need. Students majoring in the CSUSB B.S. in Geology, Environmental Geology concentration, or the Masters in Public Administration, water resource management program, are eligible to apply. The most recent award was \$650.

**Leon V. and Marion G. Pittman Scholarship** provides a scholarship to a full-time sophomore student majoring in biology, chemistry, mathematics, or physics. The emphasis in selection is on the student's academic record during their freshman year of studies at CSUSB. The most recent award was for \$950.

**Lois B. Krieger/Metropolitan Water District Scholarship** provides a scholarship to a student currently enrolled or enrolling the Masters of Public Administration (MPA) program with a water resource management specialization within the College of Business and Public Administration, the B.S. in Geology, Environmental Geology concentration, or any future water-related majors developed at CSUSB, has a minimum GPA of 3.25, is currently employed in or expressed interest in pursuing a career in water, must currently reside in MWD's 5,200 square mile service area and has lived in the service area for at least one year (Los Angeles, Orange, San Diego, Riverside, San Bernardino, and Ventura Counties). The most recent award was \$1,450.

**Lois B. Krieger/Western Municipal Water District Scholarship** provides awards to students currently enrolled, or plan to enroll, in the Masters of Public Administration (MPA) program, water resource management in the College of Business and Public Administration, the B.S. in Geology, Environmental Geology concentration, or any future water-related majors developed at CSUSB. Must have a minimum GPA of 3.25, be currently employed in or expressed



interest in pursuing a career in water, student must currently reside in Western MWD's 510 square mile service area (service area include: Jurupa, Rubidoux, Riverside, Norco, March Air Reserve Base, Corona, Elsinore, Temecula-west of the 15 freeway, Canyon Lake, Unincorporated areas around Lake Mathews, Unincorporated areas between Corona and Elsinore along the 15 freeway), and has lived in district for at least a year, financial need is considered but not essential. The most recent award was \$1,200.

**MASS (Mathematics and Science Scholars)** awarded to academically talented undergraduate students who demonstrate financial need and who intend to pursue a major in the mathematics or science disciplines with a declared major in Biology, Chemistry/Biochemistry, Computer Science, Geological Sciences, Mathematics, or Physics. Need-based awards will be up to \$3,500 per student annually and renewable for up to four years during the grant period as long as the student is enrolled full-time and remains in good academic standings.

**Mojave Desert Fryxell Scholarship** awards scholarships to CSUSB students who are residents of the Mojave Desert District or a graduate of a high school physically located within the district, to undergraduates enrolled in at least 10 units during the quarter in which the award is given and has a minimum 2.5 GPA, to graduate students enrolled as either a part-time or full-time student, and to recipients who can demonstrate a serious interest or commitment to environmental issues.

**Rhea M. Posjena Memorial Nursing Scholarship** is awarded to a CSUSB student majoring in Nursing, has a minimum 3.0 GPA, and must be a sophomore, junior, or senior. Financial need is considered but not essential.

**Ruben Ayala Scholarship** provides scholarships to students enrolled in the Bachelor of Science in Geology, Environmental Geology concentration or Masters in Public Administration, water resource management programs. Preference is given to students who have at least a 2.5 GPA.

## Scholarships for College of Social and Behavioral Sciences

**Alice Givens Memorial Scholarship** is awarded to a re-entry student who has been out of high school at least 10 years, is an undergraduate student majoring in psychology, has financial need, and is enrolled in a minimum of 6 quarter units at CSUSB. The most recent award was \$300.

**Arrowhead Credit Union Scholarship** provides two \$2,500 annual awards to undergraduate or graduate students who are enrolled full time in the College of Business and Public Administration or the College of Social and Behavioral Sciences. A \$500 scholarship is awarded to a student interested in international affairs.

**Aubrey W. Bonnett Scholarship** is a \$1,000 award given to students whose major is in the College of Social and Behavioral Sciences at CSUSB, have involvement in some type of community service (volunteer service or internships for clubs and community organizations would be included) and exhibit some leadership with regard to same, and have a minimum GPA of 3.5.

**California State University, San Bernardino Economics Department** awards the **Janczyk Family Scholarship**, the **Jim Raymond Scholarship**, and the **Economics Alumni Scholarship** to economics majors or administration majors concentrating in business economics. Each award is approximately \$1,000. For more information, contact Dr. Tom Pierce, Economics Department at (909) 537-5511.

**Craig and Jennifer Fuher National Security Studies Alumnus Scholarship** awards \$3,200 to one outstanding student based on merit and on contribution to the goals of the National Security Studies program. Student must be enrolled in the Graduate Program of National Securities Studies (NSS) in CSUSB's College of Social and Behavioral Sciences and have taken eight units of graduate coursework (faculty nominated scholarship).

**Donald W. Jordan Memorial Scholarship** provides a scholarship for an undergraduate student interested in the practice of law. The most recent award was \$1,050.

**Dora J. Prieto Scholarship** is awarded to a student with a minimum 2.5 GPA and has financial need. Preference will be given to students enrolled in Anthropology as a major, or to a student interested in activities affiliated with a museum.

**Geography Department Senior Year Scholarship** awards up to \$1,000 to students who are geography majors, must be in their senior year at CSUSB, and must have a minimum GPA of 3.0.

**Inland Empire Commercial Real Estate Scholarship** is awarded to a student majoring within the College of Social and Behavioral Sciences, must have completed a minimum of 12 quarter units of coursework in their declared major with at least a 3.0 GPA, must have an overall 2.75 GPA, must have completed at least 45 quarter units of college coursework, and must be enrolled at least as a half-time student as an undergraduate. Special application is required. Contact the CSUSB Financial Aid Office Scholarship Hotline number at (909) 537-7399 for an application between the months of January 1 - March 2 annually.

**Industrial Organizational Psychology Master of Science Scholarship** provides a scholarship to a CSUSB student enrolled under the College of Social and Behavioral Sciences in the Master of Science in Psychology, Industrial Organizational program and has a minimum 3.30 GPA. First and second year students may apply for this scholarship. Financial need is considered but not essential.

**James Roddy Scholarship** is awarded to a student enrolled at CSUSB as a history major or in the College of Business and Public Administration, financial need considered but not essential.

**John W. Kennedy Scholarship** provides a \$1,000 scholarship to a student majoring in economics or administration with a declared major of business economics, and who has completed a minimum 12 quarter units in economics course work with a 3.0 minimum GPA, and a minimum 2.75 overall GPA. Applicants must have completed 45-quarter units of college course work. For more information, contact Dr. Tom Pierce from the Economics Department at (909) 573-5511.

**Joy Renee Kirka Memorial Scholarship** provides an award to a student enrolled in the Master of Science in Psychology, Clinical Psychology. The most recent award was \$950.

**Nancy E. Smith Scholarship** is awarded to a full-time student majoring in public administration or political science who intends to pursue a career in public service. The most recent award was \$550.

**Robert and Frances Fullerton Scholarship** provides an award to a student pursuing a paralegal or law degree upon graduation. The most recent award was \$1,900.

**Verla Watkins Thomas Scholarship** is awarded to a student enrolled as a CSUSB first or second year graduate student in the M.S. Psychology, Clinical/Counseling Program, and has a minimum 3.0 GPA. Financial need considered but not essential.

**Vince Vegna MFT-Kaiser Permanente Scholarship** provides a scholarship to a student who is a declared psychology major and is enrolled in the M.S. in Psychology Clinical/Counseling Psychology option beginning their second year in the program. Preference is given to a student serving his/her nine-month internship at the Moreno Valley Addiction Medicine-Chronic Pain Management Department with Kaiser Permanente.

## Scholarships Available to All Majors

**Alan Pattee Scholarship** is provided to the children of California law enforcement personnel or firemen who are killed in the performance of official duties within the State of California. The amount of the scholarship is equal to the cost of tuition and mandatory registration fees.

**Albro Scholarship** is a \$1,650 scholarship awarded annually to a full-time African-American student with a minimum 3.0 GPA.

**Associated Students, Incorporated Scholarship** provides 35 scholarships at \$1,000 each to full-time students. Undergraduate students must have a minimum 2.0 GPA, and graduate students must have a minimum 3.0 GPA.

**Aylmer Family Scholarship** is awarded to a new or existing Presidents Academic Excellence Scholarship recipient, and must be an undergraduate student.

**Bill Leesburg Golf Scholarship** provides an award to a student who qualifies for the CSUSB Golf team, maintains a GPA of 3.0 or higher, demonstrates community service activity, and meets all relevant eligibility requirements to participate in intercollegiate athletics. Preference is given to a student with financial need. The most recent award was \$350.

**California State University, San Bernardino Associates Scholarship** provides two scholarships totaling \$800 to upper-division students who possess a superior academic record, financial need, and a record of good citizenship.

**California State University, San Bernardino Association of Latino Faculty, Staff and Students** annually provides approximately \$4,000 in scholarships to students who have evidenced an interest in Hispanic cultures. The Association of Latino Faculty, Staff and Students administers these scholarships. A separate application is required which is available in the Financial Aid Office. The minimum GPA is 2.5. Students should check with the Financial Aid Office regarding the application deadline.

**California State University, San Bernardino Black Faculty and Staff Association** awards approximately \$1,000 in scholarships to incoming freshman or continuing students with a minimum GPA of 2.5. Preference is given to students who demonstrate economic need, academic excellence by achieving a GPA of 3.0 or higher, and who contributes to the African American Community.

**California State University, San Bernardino Foundation Scholarship** provides approximately \$3,700 in scholarships to continuing students with superior academic records and financial need.

**Children's Fund Foster Youth Scholarship** provides funds to help meet the cost of education for three quarters of university fees, books and on-campus room and board. Students must be foster youth under the jurisdiction of the San Bernardino County Department of Children's Services or emancipated foster youth from San Bernardino County, are less-than 26 years old and are enrolled in the CSUSB Foster Youth Program. Students must be enrolled full-time with a GPA of 2.0 or higher and have completed 45 or more quarter units. Students must have demonstrated financial need as determined by completing the 2008-2009 Free Application for Federal Student Aid.

**Community Foundation Serving Riverside and San Bernardino Counties** provides over \$30,000 in scholarships to full-time incoming freshmen, community college transfer students, and continuing CSUSB students. Some of the scholarship monies are awarded to graduate students in special education who intend on pursuing careers as special education teachers and nursing students. All other monies are awarded to students with any major, who have a minimum 3.0 GPA, and have financial need.

**Donald Lucia, Sr., Scholarship** provides a \$5,000 award to a student with a minimum 3.0 GPA and who has financial need. This scholarship is open to all majors.

**Fabiola Campos Scholarship** is awarded to a full-time student, at least sophomore status, with a minimum 2.8 GPA, open to any major, and must be working 25 hours per week in addition to attending CSUSB. First preference will be given to residents of Barstow or graduates of Barstow High School. Second preference will be given to transfer students or graduates of Barstow College and Victor Valley College. Third preference will be given to all other students. The most recent award was \$300.

**Faculty and Staff Memorial Scholarship** honors the memory of deceased university faculty and staff. Amounts vary as additional funds are added to the scholarship; the most recent award was \$900. The Faculty and Staff Memorial Scholarship Fund, managed by the Foundation, contains tributes to former faculty including Dr. Mary Cisar (died 1971), Dr. Walter Zoecklein (1975), Dr. Florence Mote (1977), Dr. Neville Spencer (1977), Dr. James Finley (1980), Dr. William Gean (1980), Dr. Alfred Egge (1982), Dr. Marvin Frost (1983), Dr. Robert R. Roberts (1984) and Dr. Margaret Lenz (1987).

The **Felix G. Valdez J.D. Scholarship** provides funds to help meet the cost of education including fees, books, expenses, room and board. Students must have a minimum GPA of 3.0, participate or demonstrate and interest in university and/or community involvement and have study interest in creative writing, pre-law, healthcare or business. Financial need is considered but not essential.

**Frances D. Morongo Scholarship** is awarded to a CSUSB student who has attended Sherman Indian High School, or can demonstrate an interest in Native American Studies.

**Friends of John Futch Textbook Endowment** provides funds to help meet the cost of education – covering textbook fees. Preference will be given to students with minimum GPA of 2.0, and they will be encouraged to purchase used books. Financial need is considered but not essential.

**Graduate Equity Fellowship Program.** California State University, San Bernardino annually awards Graduate Equity Fellowships to educationally or financially disadvantaged students, including under represented ethnic minority, women, or disabled graduate students during an academic year. The goal of the Graduate Equity Fellowship Program is to assist under-represented students in the completion of a master's degree at CSUSB, and encourage them to pursue a doctorate and teach at the university level. The award is based on academic achievement, financial need, and the potential for going on to earn a Ph.D., and eventually teaching at the university level. Fellowships are renewable for an additional year, on a competitive basis. Awards average over \$2,000 during an academic year. For more information contact the Graduate Studies Office at (909) 537-5058.

**Leonard Transportation Center Scholarship** provides funds to help meet the cost of education for three quarters—fees, books, expenses, room and board. Student must have a minimum 2.5 GPA and be enrolled at least half-time as an undergraduate or graduate student. Recipient must demonstrate an interest in transportation research or in pursuing a career in transportation or transportation related field. Along with the application, the recipient must submit an essay no more than 500 words in length stating their interest in transportation or related field. Financial need considered, but not essential. Twenty \$1,200 scholarships will be awarded annually.

**Mara Simmons Scholarship** provides a \$2,100 scholarship to a full time student who has a physical or a learning disability and a minimum 2.5 GPA.

**Metro City Church Scholarship** is awarded to a CSUSB student who is a Presidents Academic Excellence Scholarship (PAES) recipient, must comply with the criteria established under the PAES terms.

**Mountain Communities Scholarship** is awarded to students who are current residents of the Mountain Communities (Lake Arrowhead, Crestline, Running Springs, Blue Jay, and Lake Gregory), preference given to students who are nursing or health care related majors, have a minimum 2.5 GPA, and are enrolled at least as a part-time undergraduate or graduate student. Financial need is considered but not essential. A total of eight (8) awards were last given, averaging \$2,000 each.

**Lee and Pam Wigington Scholarship** is awarded to a full-time student at either the graduate or undergraduate level, must have a minimum 2.5 GPA, and have financial need. The most recent award was \$500.

**Obershaw Student Athlete of the Year Scholarship** provides a scholarship to a female and male CSUSB athlete who has a minimum 3.0 GPA and financial aid. The most recent award averaged over \$1,000 each.

**Osher Reentry Scholars** provides twenty \$2,500 scholarships each to reentry students between the ages of 25 and 50. Scholarship monies are applied towards fees/tuition only. A special application is required. For more information contact Janet Honn-Alex at the Women's Resources/Adult Reentry Office at (909) 537-7715.

**Reynold C. Gross Memorial Scholarship** is awarded annually to an ROTC cadet in good standing. The amount is \$700. For more information, contact ROTC Office at (909) 537-5533.

**Rose Brown Scholarship** provides five \$1,000 scholarships to students with a minimum 2.5 GPA, financial need, to students who have been out of high school for at least eight years, and to widowed and/or single parent with children enrolled up through secondary school.

**Ruth and Sidney Saleson Scholarship** is awarded to students with a minimum 3.0 GPA and must be a single parent. Preference is given to students who have financial need.

**San Manuel Band of Mission Indians Scholarship** is provided to students who are enrolled at CSUSB in a minimum of twelve (12) units for undergraduate students and eight (8) units for graduate students, have and maintain a minimum GPA of 2.5 at the undergraduate level or 3.25 at the graduate level, highest preference will be given to students who express an interest in the study of Indian culture, finance, policy, government and/or infrastructure. Students seeking to renew scholarships will be asked to demonstrate - through course work, individual instruction, and the topics of research papers - their focus on the subject areas outlined above. The most recent awards averaged over \$2,000 each.

**Stanford C. Shaw Memorial Scholarship** provides a \$500 scholarship to students demonstrating academic ability and financial need.

**Taft T. Newman Scholarship** provides a \$300 scholarship to an EOP student that is enrolled full-time, has a minimum 2.0 GPA, has financial need, and is a graduating senior.

**Thomas L. Markley Scholarship** is awarded to a CSUSB Police Radio Communications employee with the most seniority within the CSUSB Police Department and must have financial need with emphasis on being a single parent as the primary provider for minor child (children). Second preference given to CSUSB Police Radio Communications employees who are married and comply with the other criteria. If no Police Radio Communications employees apply, then the funds will be available to CSUSB Community Service Officers who comply with the criteria.

**Travis D. Chatigny Memorial Scholarship** provides scholarships to CSUSB students who are physically disabled. Applicants must write a personal statement about what "living with purpose" means to them.

**Ward and Pat Fredericks Scholarship** provides a \$1,000 scholarship to help meet the cost of education including fees, books, expenses, room and board. The student must be full-time (12 units per quarter minimum), have at least a 3.0 cumulative GPA, possess financial need as determined by the Free Application for Federal Student Aid and be pursuing a bachelor's degree. Additionally, the student must accept a moral responsibility to provide future financial support for either another student of institution of higher learning.

**William H. Wilson Scholarship** is an award provided to a full-time student at CSUSB, preferably from the immediate San Bernardino area. Applicants must demonstrate economic need. The most recent award was \$500.

## Scholarships for Students Attending the CSUSB Palm Desert Campus

**Coeta and Donald Barker Scholarship** awards scholarships to nursing students who attend CSUSB Palm Desert Campus, have

a minimum 3.0 GPA, and have financial need. Financial need is determined by completing the 2006-07 Free Application for Federal Student Aid (FAFSA). A letter of recommendation should come from a nursing instructor who can attest to the applicants noble characteristics of service to others and commitment to their profession.

**Ingster Family Scholarship** awards scholarships to CSUSB Palm Desert Campus students who have a minimum cumulative GPA of 3.0 and are majoring in education or nursing.

**Josephine Lombardo Scholarship** provides a scholarship to a student enrolled under the College of Arts and Letters majoring in Music, demonstrates character, talent, and a commitment to the study of classical music with the goal of working toward a career in classical music, has a minimum 3.0 GPA, and has financial need. Preference will be given to Coachella Valley residents who are pursuing a music degree at the CSUSB Palm Desert Campus.

**Mary Stuart Rogers Scholarship** awards ten (10) to twenty (20) \$3,600 each scholarships to CSUSB Palm Desert Campus students.

**Palm Desert Campus Undergraduate Scholarship** is awarded to undergraduate students who attend the CSUSB Palm Desert Campus and have a minimum cumulative GPA of 2.0 or higher. A letter of recommendation from a current instructor is needed.

**Palm Desert Women's Club Scholarship** is awarded to CSUSB students enrolled in the BSN or MSN nursing programs at the Palm Desert Campus, must have a minimum 3.0 GPA, and must be a full-time student. Financial need is considered but not essential.

**Roderick M. Hendry Scholarship** provides scholarships to students with an overall GPA of 3.0, open to any declared major available at the Palm Desert Campus (PDC), must be an undergraduate student, must be enrolled as a full-time student at CSUSB PDC, must have completed at least 30 semester or 45 quarter units of college course work with a required minimum of 9 semester or 12 quarter units of course work in their declared major with at least a 3.0 GPA, and must submit a 500 word essay as to why they want, need, and deserve this scholarship. Financial need is considered but not mandatory.

**Steve and Catharine Briggs Scholarship** provides scholarships to students enrolled in the College of Natural Science's nursing or allied health professions degree programs, must attend the Palm Desert Campus, and demonstrate a commitment to the pursuit of a career in nursing or the allied health sciences. Financial need is considered but not essential.

**Ward and Pat Frederick Scholarship** awards scholarships to full-time CSUSB Palm Desert Campus students who have a cumulative 3.0 GPA, and have financial need. Financial need is determined by completing the 2005-06 Free Application for Federal Student Aid (FAFSA). Applicants should include in their personal essay a statement about their moral responsibility to provide support to other students in the future. A letter of recommendation from a current instructor is needed. The most recent award was for \$1,000.

## International Students

International Center, University Hall, Room 235

The International Center is the primary contact for international students including new immigrant and permanent resident students who are nationals of other countries. The International Center assists students upon arrival with locating temporary and permanent housing, provides an orientation to the community and the campus including information about academic requirements, immigration requirements, housing, health and support services available to the student. The Center also provides programs and activities to assist students with personal growth and development. Assistance and referrals are available for academic and personal counseling.

The Center coordinates the CSU International Programs, the Fulbright programs, and also houses the Phi Beta Delta Honor Society for international scholars. The Center works closely with the



international clubs and the various nationality organizations in bringing cultural events on campus. Information about club activities and field trips is available.

### Project UPBEAT (University Preparation by Early Academic Training)

The Student Academic Services Outreach Program is designed to motivate and enhance student awareness about seeking a post-secondary education. The program targets middle school students through Project UPBEAT (University Preparation By Early Academic Training). Project UPBEAT's objective is to provide an educational, college-oriented program to students and parents. Primary emphasis of the program is to increase the number of students pursuing a college education. Project UPBEAT participants are likely to be regularly admissible to four year universities upon high school graduation. Students are invited to the campus for tours, CSUSB faculty presentations and special events. Project UPBEAT serves 11 middle schools in the Inland Empire and approximately 600 students and their parents.

### University Awareness Program (UNAP)

UNAP is a supportive program designed to motivate 9th and 10th grade students to complete high school and pursue a college education. Participants attend workshops presented by CSUSB Student Mentors at their respective school sites. The workshops range from college admission requirements and career awareness to goal setting and motivational presentations. There are 10 high schools involved in UNAP from Riverside and San Bernardino Counties and approximately 500 participants.

### Student Health and Psychological Counseling Center

Student Health Center  
(909) 537-5241 [www.healthcenter.csusb.edu](http://www.healthcenter.csusb.edu)

The Student Health Center assists students in maintaining good health to successfully participate in the educational program of the campus, providing, on an outpatient basis, medical care typically provided by a primary care physician. Services available during posted hours include treatment of illnesses, injuries, contraceptive care, family planning, and immunization programs. Referrals to community health facilities are made for major illnesses or injuries beyond the scope of the Student Health Center. Any outside care, whether referred by the Health Center or not, is at the student's expense. Medication and elective health services (such as pre-employment physical examinations) are available at a nominal cost. The Center has its own licensed pharmacy where students may get prescriptions filled and purchase over-the-counter items as well. Charges associated with these services are usually dramatically lower than those found elsewhere.

All regularly enrolled students are eligible for services. Students in the extended learning program and those on staff fee waiver are not eligible. A supplementary insurance plan is available to all regularly enrolled students through a private insurance company. This plan provides health insurance coverage for serious illnesses and accidents that may require hospitalization. For more information or to purchase this insurance, contact the Student Health Center or go to [www.csuhealthlink.com](http://www.csuhealthlink.com).

The Center is closed on official university holidays. Office hours are Monday, Tuesday, Thursday 8 a.m.-5 p.m., Wednesday 8 a.m.-6 p.m. and Friday, 9 am-5 pm.

**In case of an on campus emergency**, contact the Department of Public Safety by dialing 911.

**Immunization Requirements.** All new students and students applying for re-admission born after January 1, 1957 must present proof of measles and rubella immunizations. Hepatitis B vaccine series is required of first time enrollees under the age of 19. However,

students may be exempt if they have graduated from a California Public School during or after 2005. Meningitis (Menactra) vaccine is recommended for students living in the dorms.

The Student Health Center provides clearances for the registration immunization requirements for the Measles and Rubella immunization and the Hepatitis B series. These immunization requirements must be fulfilled in advance of or during the first quarter of attendance at CSUSB. These are both offered at the Student Health Center as well as the Menactra vaccine.

Students may fulfill these requirements by bringing, faxing (909) 537-7027 or mailing documentation to the Health Center. The Student ID # and date of birth must be on all documents. For those students unable to obtain acceptable proof of immunizations, the Student Health Center will provide the immunizations to all currently enrolled students. For specific information about required immunizations call the Immunization hotline at (909) 537-7356, visit at [www.healthcenter.csusb.edu](http://www.healthcenter.csusb.edu), or call the Health Center at (909) 537-5241.

**Student Health Advisory Committee.** Students can offer important feedback about services through membership on the Student Health Advisory Committee (SHAC) sponsored by the Associated Students, Inc. Members work with clinic staff on a variety of health education projects, and also act as a liaison between the CSUSB student body and the Student Health Center.

### Psychological Counseling Center

Health Center, Room 136  
(909) 537-5040 [www.pcc.csusb.edu](http://www.pcc.csusb.edu)

The Psychological Counseling Center is available for currently students to assist with issues which may prevent a student from achieving education or life success goals, including adjustment to campus life, parenting skills, relationship or life style issues, depression and anxiety. Couples may be seen as long as one member of the couple is a currently eligible student. An initial session includes assessment of presenting concern concerns and recommendations for further consultation with either a member of the Center staff or a referral to a community resource. The Psychological Counseling Center is staffed by Licensed Clinical Psychologists, Licensed Marriage and Family Therapists, and supervised graduate trainees and interns. Fees for the Center services are covered by the health fee paid at the time of enrollment. Although the demand for counseling services is considerable, appointments are usually made within a week of the student's initial contact. In case of emergency, students are seen with minimum delay and can be seen on a walk-in basis. To schedule an assessment, call (909) 537-5040, Monday through Friday, 8 a.m.-5 p.m.

### Services to Students with Disabilities (SSD)

University Hall, Room 183  
(909) 537-5238, TTY (909) 537-7230  
<http://enrollment.csusb.edu/~ssd>

Services to Students with Disabilities offers a comprehensive and well-coordinated system of educational support services to students who have documented permanent or temporary disabilities. All students who are registered with the office are guaranteed equal opportunity to participate in all programs, services, activities and facilities.

Some of the support services available include: alternate media, sign language interpreting and real-time captioning services for the hearing impaired, test-taking accommodations, priority registration, mobility assistance, and temporary medical parking permits. The SSD office is also a resource to faculty and staff members who assist students with disabilities in meeting their educational objectives.

The SSD Office, in collaboration with the California State Department of Rehabilitation, sponsors the WorkAbility IV program.



WorkAbility IV is a transition program designed to create career options and opportunities for students with disabilities who complete their degrees at CSUSB. This program also focuses on effective assistive technology appropriate to each participant's disability and chosen field of employment.

Both prospective and new students to the university are encouraged to contact SSD early in their CSUSB programs.

## University Police

**911** for emergencies, (909) 537-5165, 537-7777

The University Police Department is a duly authorized law enforcement agency. The mission of the department is the protection of life and property on campus. The department provides professional service to the university community through diligent crime prevention, disaster preparedness, law enforcement, and campus-oriented problem solving. The department's motto is "Campus Safety Through Service."

All university police officers are fully trained California state peace officers with law enforcement authority throughout the State of California. The officers provide a full range of service, including law enforcement, crime reporting and investigation, crime prevention training, motorist assistance, traffic enforcement, accident investigation, lost and found property, disaster preparedness, escorts, and medical and fire emergency coordination and response. University Police operates 24 hours per day, 7 days per week, and can be reached by dialing 911 for emergencies and (909) 537-5165 for all other requests.

A complete "Campus Safety Report" is available through the home university web page [www.csusb.edu](http://www.csusb.edu) and in a pamphlet from University Police. Additional information is available on the university web page under University Police.

## Student Affairs

The Office of the Vice President for Student Affairs provides administrative leadership within the division and the university to assist students in the attainment of their educational goals. This is accomplished through advocacy for the provision of numerous student services as well as the intentional creation of programs and environments that enhance a student's learning, leadership potential, personal responsibility, and career development. Students needing assistance with any university matter are invited to begin with this office. Specific policies regarding student non-academic and discrimination-related grievances, discipline and emergency calls for students are administered by this office. A more complete statement on student privacy rights appears in the appendix.

## Alumni Association

(909) 537-3700 [www.csusbalumni.com](http://www.csusbalumni.com)

All graduates of the university are eligible to join and participate in the activities of the California State University, San Bernardino Alumni Association. Also eligible are those who earn credentials through the university and members of the senior class.

The purpose of the nonprofit association is to assist alumni in continued cultural and educational development, further the community interests of the university, establish mutually beneficial relationships between the university and its alumni, and promote the educational goals of the university. Additional information may be obtained from the Alumni Affairs Office.

## Student Responsibility

Students at the university are subject to all federal, state and local laws as are other citizens. Of particular importance are regulations established by the State of California through its Education Code. In addition, Board of Trustees and local university regulations directly affect student life on campus. Students are responsible for their behavior on and off campus and are expected to comply with

all policies and regulations which are posted and/or printed in university publications. Copies of all policies which affect students are available at the Office of the Vice President for Student Affairs. The Student Conduct Code, which relates to student disciplinary matters, appears in the appendix of this catalog.

## Children's Center

(909) 537-5928

The Children's Center's mission is to enable parents of young children to attend CSUSB by providing child care in a nurturing environment which supports the developing child. Services are also available for staff, faculty and community as space permits. The center is open during the academic year (Monday through Thursday, 7:30 a.m.-10:00 p.m. and Friday, 7:30 a.m.-6:00 p.m.). Ages: three years (toilet trained) to 12 years. Additional information regarding fees and availability may be obtained from the Children's Center.

# ADMISSION TO THE UNIVERSITY

Requirements for admission to California State University, San Bernardino are in accordance with Title 5, Chapter 1, Subchapter 3, of the California Code of Regulations. Complete information is available at [www.csumentor.edu](http://www.csumentor.edu).

Electronic versions of the CSU undergraduate and graduate applications are accessible on the web at <http://www.csumentor.edu>. The CSUMentor system allows students to browse through general information about CSU's 23 campuses, view multimedia campus presentations, send and receive electronic responses to specific questions, and apply for admission and financial aid. Applications may be obtained online or at any California high school or community college or from the Admissions Office at any of the campuses of the California State University.

Applying online via [www.csumentor.edu](http://www.csumentor.edu) is encouraged, and admission decisions are usually expedited when online applications have been submitted. Application in "hard copy" form may be obtained online or from the Office of Admission at any of the campuses of the California State University.

The CSU advises prospective students that they must supply complete and accurate information on the application for admission, residence questionnaire and financial aid forms. Further, applicants must have authentic and official transcripts of all previous academic work attempted. Failure to file complete, accurate and authentic application documents may result in denial of admission, cancellation of academic credit, suspension or expulsion (Section 41301, Article 1.1, Title 5, California Code of Regulations).

Students who are admitted to the university for a given term but who do not register in that term must file a new application form and \$55 application fee when they again seek admission and must meet the then current admission requirements.

## Undergraduate Application

<http://www.csumentor.edu/>

Prospective students, applying for part-time or full-time undergraduate programs of study, in day or evening classes, must file a complete undergraduate application. The \$55 nonrefundable application fee should be in the form of a check or money order payable to: The California State University, or by credit card, if submitting the online application, and may not be transferred or used to apply to another term. An alternate major may be indicated on the application. The applications of persons denied admission to an impacted campus may be re-routed to another campus at no cost, but only if the applicant is CSU eligible.

## Application Filing Periods

Terms in 2008-2009	Applications first accepted	Initial Filing Period
Summer quarter 2008	Feb. 1, 2008	February 1-28, 2008
Fall quarter 2008	Oct. 1, 2007	Oct. 1-Nov. 30, 2007
Winter quarter 2009	June 1, 2008	June 1-30, 2008
Spring quarter 2009	Aug. 1, 2008	August 1-31, 2008

Each non-impacted campus accepts applications until capacities are reached. Many campuses limit undergraduate admissions in an enrollment category because of overall enrollment limits. If applying after the initial filing period, consult the Office of Admissions and Student Recruitment for current information. Similar information is available at [http://www.csumentor.edu/filing\\_status/Default.asp](http://www.csumentor.edu/filing_status/Default.asp).

## Impacted Programs

The CSU designates programs to be impacted when more applications from CSU regularly eligible students are received in the initial filing period (October and November for fall terms, June for winter terms, August for spring terms, February for summer terms) than can be accommodated. Some programs are impacted at every campus where they are offered; others are impacted only at some campuses. Candidates for admission must meet supplementary admissions criteria if applying to impacted programs.

The CSU will announce during the fall filing period those programs that are impacted and the supplementary criteria campuses will use. Detailed impactation information is available at <http://www.calstate.edu/AR/impactioninfo.shtml> and via [www.csumentor.edu](http://www.csumentor.edu). That announcement will also be published in the CSU Review distributed to high school and college counselors, and made available online at <http://www.calstate.edu/AR/csureview>. Information about the supplementary criteria is also provided to program applicants.

Applicants must file applications for admission to an impacted program during the initial filing period. Applicants who wish to be considered in impacted programs at more than one campus should file an application at each campus for which they seek admissions consideration.

Each campus with impacted programs uses supplementary admission criteria in screening applicants. Supplementary criteria may include rank-ordering of freshman applicants based on the CSU eligibility index, or rank-ordering of transfer applicants based on the overall transfer grade point average, completion of specified prerequisite courses and a combination of campus-developed criteria. Applicants for freshman admission to impacted campuses or programs are required to submit scores on either the SAT or the ACT. For fall admission, applicants should take tests as early as possible and no later than October of the preceding year.

Unlike unaccommodated applicants to locally impacted programs, who may be redirected to another campus in the same major, unaccommodated applicants to systemwide impacted programs may not be redirected in the same major but may choose an alternate major either at the first choice campus or another campus.

## Application Acknowledgment

On-time applicants may expect to receive an acknowledgment from the campuses to which they have applied within two to four weeks of filing the application. The notice may also include a request that applicants submit additional records necessary to evaluate academic qualifications. Applicants may be assured of admission if the evaluation of relevant qualifications indicates that applicants meet CSU admission requirements and campus requirements for admission to an impacted program. Unless specific written approval/confirmation is received, an offer of admission is not transferable to another term or to another campus.

## Hardship Petitions

The campus has established procedures for considering qualified applicants who would be faced with an extreme hardship if not admitted. Prospective hardship petitioners should contact the university regarding specific policies governing hardship admission.

## Undergraduate Admission Requirements

### Freshman Requirements.

Generally, first time freshmen applicants will qualify for regular admission if they

1. have graduated from high school, have earned a Certificate of General Education Development (GED) or have passed the California High School Proficiency Examination,
2. have a qualifiable minimum eligibility index (see below), and

3. have completed with grades of "C" (2.0) or better each of the courses in the comprehensive pattern of college preparatory subject requirements (see "Subject Requirements"). Courses must be completed prior to the first enrollment in the California State University.

**Eligibility Index.** The eligibility index is the combination of the high school grade point average and scores on either the ACT or the SAT. See Page 65 for revised score requirements. Grade point averages (GPA) are based on grades earned in courses taken during the final three years of high school. Included in calculation of GPA are grades earned in all college preparatory "a-g" subject requirements, and bonus points for approved honors courses.

Up to eight semesters of honors courses taken in the last three years of high school, including up to two approved courses taken in the tenth grade can be accepted. Each unit of A in an honors course will receive a total of 5 points; B, 4 points; and C, 3 points.

A CSU Eligibility Index (EI) can be calculated by multiplying a grade point average by 800 and adding your total score on the mathematics and critical reading scores of the SAT. Students who took the ACT, multiply your the grade point average by 200 and add ten times the ACT composite score. Persons who are California high school graduates (or residents of California for tuition purposes) need a minimum index of 2900 using the SAT or 694 using the ACT. The Eligibility Index Table on Page 537 illustrates several combinations of required test scores and averages.

For admission to terms during the 2008-2009 college year, the university has no plans to include the writing scores from either of the admissions tests in the computation of the CSU Eligibility Index.

Persons who neither graduated from a California high school nor are a resident of California for tuition purposes, need a minimum index of 3502 (SAT) or 842 (ACT). Graduates of secondary schools in foreign countries must be judged to have academic preparation and abilities equivalent to applicants eligible under this section.

An applicant with a grade point average of 3.00 or above (3.61 for nonresidents) is not required to submit test scores. However, all applicants for admission are urged to take the SAT or ACT and provide the scores of such tests to each CSU to which they seek admission. Campuses use these test results for advising and placement purposes and may require them for admission to impacted majors or programs. Impacted CSU campuses require SAT or ACT scores of all applicants for freshman admission.

### Provisional Admission for First-Time Freshmen

CSUSB may offer students early, provisional admission based on their academic preparation through the junior year of high school and planned for the senior year. The campus will monitor the senior year of study to ensure that admitted students complete their senior year of studies satisfactorily, including the required college preparatory subjects, and graduate from high school. Students are required to submit an official transcript after graduation to certify that all course work has been satisfactorily completed. Official high school transcripts must be received prior to the deadline set by the university. In no case may documentation of high school graduation be received any later than the census date for a student's first term of CSU enrollment. A campus may rescind admission decisions, cancel financial aid awards, and cancel any university registration for students who are found to be ineligible after the final transcript has been evaluated.

Applicants will qualify for regular (non-provisional) admission when the university verifies that they have graduated and received a diploma from high school, have a qualifiable minimum eligibility index, have completed the comprehensive pattern of college preparatory "a-g" subjects, and, if applying to an impacted program, have met all supplementary criteria.

### High School Graduation Equivalency

Students who are not high school graduates may satisfy the high school graduation requirement by submitting the California Certificate of Proficiency or the General Education Development (GED) certificate or equivalent certificates awarded by other states.

1. California High School Proficiency Test. A "pass" on the California High School Proficiency Examination is considered equivalent to graduation from high school.
2. Tests of General Educational Development (GED). An applicant submitting scores on the GED has established high school graduation equivalence if the average score for the five tests is 45 or better and each score is at least 40.

Meeting Admission Requirements. Applicants presenting the high school proficiency test or the GED will be expected to meet the fifteen unit college preparatory subject requirements. Grades in courses completed after grade nine are used to calculate the grade point average for the eligibility index.

### Subject Requirements

The CSU requires that first-time freshmen applicants complete, with grades of "C" (2.0) or better, a comprehensive pattern of college preparatory study totaling 15 units. A "unit" is one year of study in high school.

- 2 years of social science, including 1 year of U.S. history, or U.S. history and government.
- 4 years of English.
- 3 years of mathematics (algebra, geometry, and intermediate algebra).
- 2 years of laboratory science (1 biological and 1 physical, both with labs).
- 2 years in the same foreign language (subject to waiver for applicants demonstrating equivalent competence).
- 1 year of the same discipline in visual and performing arts or other courses approved and included on the UC/CSU "a-g" list.
- 1 year of electives chosen from the subject areas listed above or approved college preparatory elective courses.

### Subject Requirement Substitution for Students with Disabilities

Applicants with disabilities are encouraged to complete college preparatory course requirements if at all possible. If an applicant is judged unable to fulfill a specific course requirement because of his or her disability, alternate college preparatory courses may be substituted for specific subject requirements. Substitutions may be authorized on an individual basis after review and recommendation by the applicant's academic advisor or guidance counselor in consultation with the director of Services to Students with Disabilities. Although the distribution may be slightly different from the course pattern required of other students, students qualifying for substitutions will still be held for 15 units of college preparatory study. Students should be aware that failure to complete courses required for admission may limit later enrollment in certain majors, particularly those involving mathematics. For further information and substitution forms, call the director of Services to Students with Disabilities at CSUSB or at the nearest CSU campus.

### Waiver of High School Foreign Language Subject Requirement

The high school foreign language subject requirement may be waived for applicants who demonstrate competence in a language other than English equivalent to or higher than expected of students who complete two years of foreign language study. Consult with a school counselor or any CSU campus admissions or Office of Admissions and Student Recruitment for further information.



## Transfer Applicants

Students who have completed fewer than 90 transferable quarter college units (fewer than 60 semester units) are considered lower division transfer students. Students who have completed 90 or more transferable quarter college units (60 or more semester units) are considered upper division transfer students. Students who complete college units during high school or through the summer immediately following high school graduation are considered first-time freshmen and must meet those admission requirements. Transferable courses are those designated for baccalaureate credit by the college or university offering the courses and accepted as such by the campus to which the applicant seeks admission.

**Lower Division Transfer Requirements.** Generally, applicants will qualify for admission as a lower division transfer student if they have a grade point average of at least 2.0 ("C"), 2.4 for a non-California resident, or better in all transferable units attempted, are in good standing at the last college or university attended, and meet any of the following standards:

1. Will meet the freshman admission requirements (grade point average and subject requirements) in effect for the term to which they are applying; or
2. Were eligible as a freshman at the time of high school graduation except for the subject requirements, have been in continuous attendance in an accredited college since high school graduation, and have made up the missing subjects.

Applicants who graduated from high school prior to 1988 should contact the Office of Admissions and Student Recruitment to inquire about alternative admission programs.

**Making Up Missing College Preparatory Subject Requirements.** Lower division applicants who did not complete subject requirements while in high school may make up missing subjects in any of the following ways.

1. Complete appropriate courses with a "C" or better in adult school or high school summer sessions.
2. Complete appropriate college courses with a "C" or better. One college course of at least three semester or four quarter units will be considered equivalent to one year of high school study.
3. Earn acceptable scores on specified examinations.

Consult with any CSU admission office for further information about alternative ways to satisfy the subject requirements.

**Upper Division Transfer Requirements.** Applicants will qualify for admission as an upper division transfer student if:

1. they have a grade point average of 2.0 ("C"), 2.4 for a non-California resident, or better in all transferable units attempted;
2. they are in good standing at the last college or university attended, and they have completed at least 90 transferable quarter (60 semester) units of college coursework with a grade point average of 2.0 or higher and a grade of "C" or better in each course used to meet the CSU general education requirements in written communication, oral communication, critical thinking and quantitative reasoning, e.g. mathematics. The 90 quarter units must include all the general education requirements in the English language (both oral and written) and critical thinking and the requirement in mathematics/quantitative reasoning (usually 3 semester units) OR the Intersegmental General Education Transfer Curriculum (IGETC) requirements in English communication and mathematical concepts and quantitative reasoning.

**Provisional Admission for Transfer Students.** Transfer students may be provisionally admitted based on their academic preparation and courses planned for completion. The campus will monitor the final terms to ensure that those admitted complete all required courses satisfactorily. All accepted applicants are required to submit an official transcript of all college level work completed. Campuses will rescind admission for all students who are found to be ineligible after the final transcript has been evaluated. In no case may such

documents be received and validated by the university any later than a student's registration for their second term of CSU enrollment.

## Adult Students

As an alternative to regular admission criteria, an applicant who is 25 years of age or older may be considered for admission as an adult student if he or she meets the following conditions:

1. Possesses a high school diploma (or has established equivalence through either the Tests of General Educational Development or California High School Proficiency Examination);
2. Has not been enrolled in college as a full-time student for more than one term during the past five years;
3. If there has been any college attendance, a "C" (2.0) average or better in all college work attempted.

Consideration will be based upon a judgment as to whether the applicant is as likely to succeed as a regularly admitted freshman or transfer student and will include an assessment of basic skills in the English language and mathematical computation.

To assess these skills, SAT or ACT scores must be presented prior to determination of admission. The ACT is offered on campus through the Testing Office.

## Test Requirements

Freshmen and transfer applicants who have fewer than 60 semester or 90 quarter units of transferable college credit must submit scores, unless exempt (see "Eligibility Index" on Page 537) from either the ACT or the SAT of the College Board. Persons who apply to an impacted program may be required to submit test scores and should take the test no later than October or November. Test scores also are used for advising and placement services. Registration forms and dates for SAT or ACT are available from school or college counselors or from a campus Testing Office or students may write to or call:

The College Board (SAT)  
Registration Unit, Box 6200  
Princeton, New Jersey 08541-6200  
(609) 771-7588 [www.collegeboard.org](http://www.collegeboard.org)  
or  
ACT Registration Unit  
P.O. Box 414  
Iowa City, Iowa 52240  
(319) 337-1270 [www.act.org](http://www.act.org)

## International (Foreign) Student Admission Requirements

The California State University must assess the academic preparation of foreign students. For this purpose, "foreign students" include those who hold U.S. temporary visas as students, exchange visitors, or in other nonimmigrant classifications.

The CSU uses separate requirements and application filing dates in the admission of "foreign students." For these purposes, foreign students are residents of a country other than the United States or those who hold visas as students, exchange visitors or in other nonimmigrant classifications.

Applicants for admission as either graduates or undergraduates whose education has been in a foreign country should file an application for admission, official certificates and detailed transcripts of record from each secondary school and collegiate institution attended several months in advance of the opening of the quarter in which the applicant expects to attend. If certificates and transcripts are not in English, they must be accompanied by certified English translations. Credentials will be evaluated in accordance with the general regulations governing admission to California State University, San Bernardino. Priority in admission is given to residents of California. There is little likelihood of nonresident applicants, including foreign students, being admitted either to impacted majors or to those majors or programs with limited openings.



An applicant whose education has been in a language other than English must take the Test of English as a Foreign Language (TOEFL). This test is administered in most foreign countries and official test scores must be received by the university before admission to the university can be granted. Information as to the time and place at which this test is given may be obtained from: Educational Testing Service (TOEFL), Princeton, New Jersey 08540, U.S.A.

Foreign applicants must also submit a statement of financial responsibility to the Office of Admissions and Student Recruitment to be considered for admission to the university. Also, foreign students are required to submit evidence of adequate medical/hospital insurance to the international student advisor.

Arrangements for housing should be completed before the student's arrival on the campus. Detailed information regarding housing may be obtained from the director of housing, California State University, San Bernardino. Scholarship aid for entering students is limited; no scholarships are specifically reserved for students from another country.

Upon arrival at California State University, San Bernardino the student should obtain an appointment as early as possible with the International Center.

**Insurance Requirement.** Effective August 1, 1995, as a condition of receiving an I-20 or DS-2019 form, all F-1 and J-1 visa applicants must agree to obtain and maintain health insurance as a condition of registration and continued enrollment in the California State University. Such insurance must be in amounts as specified by the United States Information Agency (USIA) and NAFSA: Association of International Educators. The campus president or designee shall determine which insurance policies meet these criteria. Further information can be obtained from the International Center.

## TOEFL Requirement

All undergraduate applicants whose native language was not English and who have not attended schools at the secondary level or above for at least three years full time where English is the principal language of instruction must complete the Test of English as Foreign Language (TOEFL). The minimum TOEFL score for undergraduate is 500 paper-based test or 173 computer-based test or 61 internet-based test. Some majors may require higher scores. Some campuses may also use alternative methods for assessing English fluency.

CSU minimum TOEFL standards are:

	Internet	Computer	Paper
Undergraduate	61	173	500
Graduate	79/80	213	550

## Other Applicants

An applicant not admissible under one of the above provisions should enroll in a community college or other appropriate institution. Only under the most unusual circumstances will such applicants be permitted to enroll in the university. Permission is granted only by special action of the university.

## Admission as an Auditor

A student who wishes only to audit a course instead of enrolling for credit must complete a statement of residence issued by the Office of Records, Registration and Evaluations. Auditors must pay the same fees as would be charged if the courses were taken for credit. See Page 47 for auditing courses.

## Admission of Post-Baccalaureate and Graduate Students

Requirements pertaining to the admission of postbaccalaureate and graduate students are contained in the Graduate Studies section beginning on Page 347.

## Admission to Teaching Credential Programs

Admission to the university as a student does not constitute admission to a teaching credential program. Students who intend to work toward credentials should also make application to the College of Education.

## Matriculation Policy

An undergraduate student is considered matriculated only if they register, pay fees and do not drop prior to census for a given term through the regular campus enrollment. An application and application fee are required if: 1) the student was not matriculated in any of the three terms (not including summer) prior to the term in which they plan to register, 2) the student was enrolled at another four-year institution during an absence from California State University, San Bernardino, and 3) the student has since earned a baccalaureate degree. Enrollment through Open University or Extended Learning does not constitute regular enrollment.

## Returning Students

Undergraduate students in good standing may be readmitted to the university after an absence of one term by notifying the Office of Records, Registration and Evaluations. The application and fee of \$55 are required if the student was not enrolled in any of the three terms (not including summer) prior to the term for which the student is seeking admission or if the student was enrolled in another institution during the absence from California State University, San Bernardino. Enrollment through Open University or Extended Learning during fall, winter or spring quarters does not constitute enrollment for this purpose. (See Leave of Absence, Page 47.)

## Readmission of Previously Disqualified Students

After receiving notice of disqualification, a student may petition the director of Advising and Academic Services for readmission to the university on probation. All petitions for readmission must be submitted to the director of Advising and Academic Services according to the following schedule:

<u>Petition for:</u>	<u>Petition on file on or before:</u>
Fall	July 1
Winter	December 1
Spring	March 1
Summer	June 1

## Transfer of Credit

A maximum of 70 transferable semester units (105 quarter units) of work taken at a community college can be applied toward the requirements for a degree from the university. No upper-division credit will be allowed for courses taken at a community college. No credit may be allowed for professional courses in education taken at a community college, other than an introduction to education course.

The Office of Records, Registration and Evaluations will evaluate previous college work to determine its applicability to the requirements of the university. All undergraduate degree candidates will be issued a Program Advising Worksheet for Students (PAWS), indicating requirements which remain unfilled. Once issued to a student, the PAWS remains valid as long as the student matriculates for the term specified, pursues the objective specified, and remains in continuous attendance. Students will not be held to additional graduation requirements unless such requirements become mandatory as a result of changes in the California Code of Regulations or the California Education Code.

## 40 / Admissions

Credit for work completed at institutions of recognized accreditation will be accepted toward the satisfaction of degree requirements at the university within limitations of residence and major requirements, community college transfer maximums, and course applicability.

**Concurrent Enrollment.** Once a student has matriculated at this university, only approved courses subsequently taken elsewhere will be accepted for credit. See Page 46.

### Credit for Standardized External Examinations and Systemwide Examinations

The university shall grant four and a half quarter units of credit for each of the following College Level Examination Program (CLEP) examinations passed at the 50th percentile, provided the examination was not taken previously within the past term and that degree credit has not been granted for previous course work at the equivalent or at a more advanced level than for the examination in question.

U.S. History	Mathematics (1975 edition)
Social Science	Fine Arts
Biological Science	Literature
Physical Science	

No credit will be granted for CLEP English Composition.

The university may also grant credit and advanced standing for CLEP subject examinations, using as minimum standards:

1. That the student submit a score at or above the 50th percentile in the norming group who earned a mark of "C" (2.0) or better;
2. That equivalency to CSUSB courses be determined by the appropriate academic department;
3. That college credit shall have not been previously earned in the courses in question.

Questions regarding the acceptance of other standardized external examinations should be directed to the Office of Records, Registration and Evaluations.

In no case will credit awarded through external examinations count towards residence credit.

### Credit by Advanced Placement

Students who have successfully completed exams in the Advanced Placement Program of the College Board (defined as receiving a score of 3 or better) shall be granted up to nine quarter units of credit for each advanced placement course toward graduation, advanced placement in the university's sequence of courses and credit for curriculum requirements. Test results must be presented to the Office of Admissions and Student Recruitment for credit to be awarded.

### Credit by International Baccalaureate

Students who have successfully completed International Baccalaureate exams at the Higher Level (defined as receiving a score of 4 or higher) may be granted up to nine quarter units of credit for each successful exam towards graduation, advanced placement in the university's sequence of courses, and credit for curriculum requirements. Test results must be presented to the Admissions and Student Recruitment Office for credit to be awarded.

### Credit for Extension and Correspondence Courses

A maximum of 36 quarter units of credit earned through extension and correspondence courses may be applied to a baccalaureate degree program. A maximum of 13 quarter units of graduate credit earned through extension registration may be accepted toward a master's degree program. No credit so earned may be used to satisfy the university residence requirement.

Matriculated students wanting to take correspondence courses must first have the courses approved by following the procedures outlined in the section on Concurrent Enrollment. All examinations for these courses must be proctored by the University Testing Center.

Only those credits will be accepted for transfer which are acceptable toward a baccalaureate or master degree or credential at the institution offering the courses.

### Credit for Military Service

The university grants lower-division undergraduate credit for completion of basic training in the armed forces of the United States. This credit is applied to the Lifelong Understanding area of General Education.

A limited amount of additional credit may be granted to students who have completed certain service schools in addition to basic training. Credit will only be evaluated if needed for admissibility or toward graduation. This credit is allowed on the basis of recommendations of the Commission on Educational Credit and Credentials of the American Council on Education and must be documented on a DD-214, DD-295 or AARTS (Army/American Council on Education Registry Transcript System) transcript. Credit based on military rank (MOS) will not be awarded.

The total amount of credit earned on the basis of externally developed tests and through recommendations of the commission, which may be applied to a baccalaureate degree, shall not exceed 45 quarter units, except that advanced placement credit is excluded from the limit.

### California Articulation Number (CAN)

The California Articulation Number (CAN) System identifies many transferable, lower division, preparation courses commonly taught on California college and university campuses.

The system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN courses on another participating campus. For example: CAN ECON 2 on one campus will be accepted for CAN ECON 2 on every other participating campus. Each campus retains its own numbering system, but adds the CAN designation parenthetically in its publications. See Page 539 for a list of courses.

### High School-University Program

Students still enrolled in high school will be considered for enrollment in certain special programs if recommended by the principal and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a specific program and does not constitute the right to continued enrollment. A brochure describing the program is available from the Office of Admissions and Student Recruitment.

### Fee Waiver Program For California Residents Sixty Years of Age or Older

Carolyn Smith, Records, Registration and Evaluations Office  
(909) 537-5219, ksmith@csusb.edu

California State University, San Bernardino offers a program which allows California residents, sixty years of age or older, to enroll in regular session courses without payment of certain specified fees. All regular admission requirements must be met. The program is required to adhere to the following standards: 1) enrollment shall be limited to persons who are California residents as defined by the Education Code, are 60 years of age or older, and are eligible for admission to the university, and 2) persons enrolling in the program will be able to register on the last day of priority registration. If someone applies after priority registration is over, they will register during "late registration" but the \$25.00 late fee will be waived.

### Intrasystem and Intersystem Enrollment Programs

Students enrolled at any CSU campus will have access to courses at other CSU campuses on a space available basis unless those campuses or programs are impacted. This access is offered without students being required to be admitted formally to the host

campus and sometimes without paying additional fees. Although courses taken on any CSU campus will transfer to the student's home CSU campus as elective credit, students must consult their home campus academic advisors to determine how such courses may apply to their degree programs before enrolling at the host campus.

There are two programs for enrollment within the CSU and one for enrollment between CSU and the University of California or California community colleges.

**CSU Intrasystem Concurrent Enrollment.** Matriculated students in good standing may enroll at both their home campus and a host CSU campus during the same term. Credit earned at the host campus is reported to the home campus to be included on the student's transcript at the home campus.

**CSU Intrasystem Visitor Enrollment.** Matriculated students in good standing enrolled at one CSU campus may enroll at another CSU campus for one term. Credit earned at the host campus is reported at the student's request to the home campus to be included on the student's transcript at the home campus.

**Intersystem Cross Enrollment.** Matriculated CSU, UC or community college students may enroll on a "space available" basis for one course per term at another CSU, UC or community college and request that a transcript of record be sent to the home campus.

### UCR/CSUSB Cross Registration Program

On a limited basis, students may be permitted to take advantage of courses offered at the nearby University of California campus in Riverside. Note that this opportunity is available only for undergraduate courses not normally offered at CSUSB and is subject to availability of space at UC Riverside after their early registration process is completed. The following conditions apply:

1. A limited number of students may participate.
2. A limit of one course per student per quarter.
3. The student is matriculated and currently enrolled in a degree program.
4. Student must pay sufficient (full) fees at the Home Campus. No additional registration fees will be required at the Host Campus.
5. The desired course is not offered at the Home Campus.
6. Student must be in good academic standing.
7. Student must observe all academic deadlines and regulations of the Host Campus.
8. Enrollment is subject to space availability and consent of the instructor.
9. Student must meet course prerequisites of the Host Campus.
10. Records of grades will be maintained by the Host Campus and forwarded to the Home Campus. The Home Campus will include the "transfer" work on the student's transcript, with a footnote indicating that the course was taken through the exchange program.
11. Residence credit will be granted for courses taken by CSUSB students under this arrangement.
12. Cross-registration students will have the use of library facilities at the Host Campus. The student is not eligible for other student services or facilities.

Check with the Office of Records, Registration and Evaluations for more details and application form.

### Health Screening

All new and readmitted California State University, San Bernardino students are required to present proof of the following immunizations before the beginning their second quarter of enrollment. These are not admission requirements, but shall be required of students as conditions of enrollment in CSU.

**Measles and Rubella.** All new and readmitted students born after January 1, 1957 must provide proof of full immunization against both measles and rubella prior to enrollment. If they do not have appropriate records, the Student Health Center (SHC) does provide these immunizations.

**Hepatitis B.** All new students who will be 18 years of age or younger at the start of their first quarter must also provide proof of full immunization against Hepatitis B by the beginning of their second quarter of attendance. Full immunization against Hepatitis B consists of three timed doses of vaccine over a minimum four to six months period. For further details, including price or special circumstances, consult the SHC.

**PLEASE NOTE:** Students may be exempt from these immunization requirements if they have graduated from a California Public School during or after 2005. Failure to meet the above requirements within the first quarter of attendance will result in a registration hold for subsequent quarters. Call the Student Health Center's Immunization Hotline at (909) 537-7356 or the SHC at (909) 537-5241 for further information.

**Meningococcal Notification.** Each incoming freshman who will be residing in on-campus housing will be required to return a form indicating that they have received information about meningococcal disease and the availability of the vaccine to prevent one from contracting the disease and whether or not he or she has chosen to receive the vaccination.

Other persons subject to these screening provisions include:

- Students who reside in on-campus housing;
- Students who obtained their primary and secondary schooling outside the United States;
- Students enrolled in dietetics, nursing, physical therapy, student teaching, or field work involving preschool-age children, or working in a health care setting.

### Determination of Residence

The determination of whether a student qualifies as a resident for admission and tuition purposes is made by the university after review of a residence questionnaire, designed to provide necessary information including the applicability of any exceptions. A statement summarizing the principal rules regarding residency determination and their exceptions is included in the appendix.

### Use of Social Security Number

Applicants are required to include their correct social security number in designated places on applications for admission pursuant to the authority contained in Section 41201, Title 5, California Code of Regulations, and Section 6109 of the Internal Revenue Code (26 U.S.C. 6109). The university uses the social security number to identify students and their records including identification for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the university.

Also, the Internal Revenue Service requires the university to file information returns that include the student's social security number and other information such as the amount paid for qualified tuition, related expenses, and interest on educational loans. That information is used by the IRS to help determine whether a student, or a person claiming a student as a dependent, may take a credit or deduction to reduce federal income taxes.

### Reservation

The University reserves the right to select its students and deny admission to the University or any of its programs as the University, in its sole discretion, determines appropriate based on an applicant's suitability and the best interests of the University.



# FEE SCHEDULE

## 2008-2009

Students are required to pay registration fees in accordance with the instructions provided in the quarterly *Class Schedule* and via My Coyote Self Service. Tuition is not charged to legal residents of California. Non-resident students shall pay tuition in addition to other university fees.

Cash, checks and ATM debit cards will be accepted at the Bursar and electronic checks via a Campus website. MasterCard, Discover, and American Express will be accepted through a third party vendor with a service fee assessed. Credit cards will no longer be accepted on campus, except in the bookstore, commons and Foundation Cashier. See the *Class Schedule* for details. The application fee, identification card and late charge fees are nonrefundable.

The following reflects the systemwide fees and expenses for the quarter system in which the catalog was printed. Fees subject to change without notice.

### All students

Application fee (nonrefundable, payable by check or money order at time of applying) . . . . .	\$55.00
Facilities fee . . . . .	13.00
State university fee per quarter (all students)	
Undergraduates	
0-6 units . . . . .	536.00
6.1 or more units . . . . .	924.00
Credential	
0-6 units . . . . .	622.00
6.1 or more units . . . . .	1,072.00
Post-Baccalaureate	
0-6 units . . . . .	660.00
6.1 or more units . . . . .	1,138.00
Doctoral Candidates	
0-6 units . . . . .	2,460
6.1 or more units . . . . .	2,460
Associated Students, Inc. fee	
Fall . . . . .	29.00
Winter . . . . .	26.00
Spring . . . . .	26.00
Summer . . . . .	21.00
Coyote One Card . . . . .	5.00
Student union fee:	
Fall . . . . .	99.00
Winter . . . . .	95.00
Spring . . . . .	95.00
Summer term . . . . .	95.00
Health Center service fee . . . . .	55.50
Instructionally related activities fee:	
Fall . . . . .	48.00
Winter . . . . .	46.00
Spring . . . . .	46.00
Summer . . . . .	18.00

### Nonresidents (U.S. and foreign)

Tuition (in addition to other fees charged all students):	
per unit . . . . .	226.00
one-half unit . . . . .	113.00
Maximum nonresident tuition per academic year . .	10,170.00

### Residence halls (estimated)

Serrano Village	
Double Residence Hall	
\$4,311 + mandatory meal plan \$2,216.00= . . .	\$6,527.00
Single Residence Hall	
\$5,373 + mandatory meal plan \$2,216.00= . . . .	7,589.00
Super Single Residence Hall	
\$5,841 + mandatory meal plan \$2,216.00= . . . .	8,057.00
Arrowhead Village	
Single B/C apartment, no meal plan required . . . . .	6,030.00
Single A/D apartment, no meal plan required . . . . .	6,300.00
Studio apartment, no meal plan required . . . . .	7,281.00
Super Single, no meal plan required . . . . .	7,416.00
University Village	
4 bedroom/2 bath, no meal plan required . . . . .	6,399.00
2 bedroom/1 bath, no meal plan required . . . . .	7,182.00
4 bedroom/4 bath, no meal plan required . . . . .	7,326.00

### Special fees

Administrative fee . . . . .	22.00
Credential fee . . . . .	60.00
Various laboratory, activity and art studio fees (consult the <i>Class Schedule</i> for current fees) . . .	5.00-40.00
Late registration . . . . .	25.00
Failure to meet required appointment or time limit . . . . .	5.00
Grad check/Diploma fee (per major) . . . . .	25.00
Grad check/Diploma, late, first filing (per major) . . . . .	40.00
Refiling (per major) . . . . .	20.00
Late refiling (per major) . . . . .	35.00
Diploma replacement fee . . . . .	25.00
Change of graduation requirements . . . . .	20.00
Enrollment verification . . . . .	4.00
Graduation certificates . . . . .	10.00
Commencement fee . . . . .	35.00
Certificate fee . . . . .	25.00
Change of major . . . . .	4.00
Parking fees	
Quarter:	
Four-wheel vehicle . . . . .	72.00
Two-wheel vehicle (includes mopeds) . . . . .	45.00
Check returned for any cause or credit card declined . . . . .	25-35.00
Lost document replacement . . . . .	2.00
Transcript of academic record	
Single transcript . . . . .	4.00
Additional transcripts prepared at the same time . . . .	2.00
Expedited transcript request . . . . .	12.00
Faxing unofficial transcript . . . . .	10.00
Library fees . . . . . schedule posted at Library circulation desk	
Master's degree thesis . . . . . contact Office of Graduate Studies	

**Note:** Fees subject to change without notice.

### State University Fee

A state university fee has been established by the trustees of the California State University to provide financing for various student services programs not covered by state funding.

### Fee Waivers

The California Education Code includes provisions for the waiver of mandatory systemwide fees as follows:

Section 68120: Children and surviving spouses/registered domestic partners of deceased public law enforcement or fire suppression employees who were California residents and who were killed in the course of active law enforcement or fire suppression duties (referred to as Alan Pattee Scholarships);

Section 66025.3: Qualifying children, spouses/registered domestic partners, or unmarried surviving spouses/registered domestic partners of a war period veteran of the U.S. military who is



totally service-connected disabled or who died as a result of service-related causes; children of any veteran of the U.S. military who has a service-connected disability, was killed in action, or died of a service-connected disability and meets specified income provisions; any dependents or surviving spouses/registered domestic partner who has not remarried of a member of the California National Guard who in the line of duty and in active service of the state was killed or became permanently disabled or died of a disability as a result of an event while in active service of the state; and undergraduate students who are the recipient of or the child of a recipient of a Congressional Medal of Honor and meet certain age and income restrictions; and

Section 68121: Qualifying students enrolled in an undergraduate program who are the surviving dependent of any individual killed in the September 11, 2001 terrorist attacks on the World Trade Center in New York City, the Pentagon building in Washington, D.C., or the crash of United Airlines Flight 93 in southwestern Pennsylvania, if the students meet the financial need requirements set forth in Section 69432.7 for the Cal Grant A Program and either a surviving dependent or the individual killed in the attacks was a resident of California on September 11, 2001.

Students who may qualify for these benefits should contact the Office of Admissions and Student Recruitment for further information and/or an eligibility determination.

### Disabled Student Quarterly Parking Fee Waiver

Disabled students receiving financial aid may qualify for waiver of the campus parking fee.

In order for a student to be eligible for the waiver of their Campus parking fee, a student must:

- Possess a valid state DMV Handicap Parking Placard or Plates in their name;
- Have "...demonstrated financial need for parking fee financial assistance according to the need analysis procedure for campus based financial aid authorized by Title IV of the federal Higher Education Act of 1965, as amended (20 U.S.C. 1087kk et seq.)." Authority: California Education Code Sections 89701 and 67311.5 (b) (6);
- Submit the CSUSB "Request for Waiver of Campus Parking Fees," following the proper procedures described on the form. Forms may be obtained at the following offices during their normal office hours:  
Services to Students with Disabilities (UH-183),  
Financial Aid Office (UH-150),  
Parking Services (TO-209).

For additional information on the Disabled Student Quarterly Parking Fee Waiver, visit the Financial Aid Office website, [www.finaid.csusb.edu](http://www.finaid.csusb.edu) and click on Disabled Students.

### Credit/Refund of Fees including Nonresident Tuition

Office of Accounting  
(909) 537-5153 [http://admnacct.csusb.edu/sao\\_refunds/.htm](http://admnacct.csusb.edu/sao_refunds/.htm)

Regulations governing the refund of mandatory fees, including nonresident tuition, for students enrolling at the California State University are included in §41802 of Title 5, California Code of Regulations. For purposes of the refund policy, mandatory fees are defined as those systemwide fees and campus fees that are required to be paid in order to enroll in state-supported academic programs at the California State University. Refunds of fees and tuition charges for self-support programs at the California State University (courses offered through extended learning) are governed by a separate policy established by the University.

**Note:** Application Fees, Late Registration Fee, and Coyote One Card Fee are not refundable.

In order to receive a full refund of mandatory fees, including nonresident tuition, a student must cancel registration or drop all courses prior to the first day of instruction for the term. Information on procedures and deadlines for canceling registration and dropping classes is available in the *Class Schedule*, on the campus website or by contacting the University.

For state-supported semesters, quarters and non-standard terms of courses of four weeks or more, a student who withdraws during the term in accordance with the university's established procedures will receive a refund of mandatory fees, including nonresident tuition, based on the portion of the term during which the student was enrolled. No student withdrawing after the 60 percent point in the term will be entitled to a refund of any mandatory fees or nonresident tuition.

For state-supported semesters, quarters and non-standard terms of courses of less than four weeks, no refunds or mandatory fees and nonresident tuition will be made unless a student cancels registration or drops all classes prior to the first day in accordance with the university's established procedures and deadlines.

It is each student's responsibility to formally withdraw from classes and meet the conditions described above to receive a refund. Refunds are either mailed, processed to direct deposit, or refunded to the student's credit card. Automatic refunds are processed after census date. For faster refund results, students may complete a refund request form at the Student Accounts Office. Important notice: Students should make sure that the University has their correct mailing address. Refunds are typically processed within 10 business days. Registration fees paid by check or credit card are not considered valid until the bank has cleared the payment. Refunds will not be processed until checks and credits are cleared by the bank. Refunds for payments made by check require a copy of the student's canceled check; otherwise, it may take up to five weeks before Accounting receives confirmation from the State that the student's check has cleared.

Information concerning any aspect of the refund of fees may be obtained from Student Accounts Office located in Sierra Hall, Room 119, or extension 7426.

Students will also receive a refund of mandatory fees, including nonresident tuition under the following circumstances:

- The tuition and mandatory fees were assessed or collected in error;
- The course for which the tuition and mandatory fees were assessed or collected was cancelled by the university;
- The university makes a delayed decision that the student was not eligible to enroll in the term for which mandatory fees were assessed and collected and the delayed decision was not due to incomplete or inaccurate information provided by the student; or
- The student was activated for compulsory military service.

Students who are not entitled to a refund as described above may petition the university for a refund demonstrating exceptional circumstances and the Director of Accounting may authorize a refund if he or she determines that the university did not earn the fees and tuition.

### Fees and Debts Owed to the University

Should a student or former student fail to pay a fee or a debt owed to the institution, the institution may "withhold permission to register, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above from any person owing debt" until the debt is paid (see Title 5, California Code of Regulations, Sections 42380 and 42381).

Prospective students who register for courses offered by the university are obligated for the payment of fees associated with registration for those courses. Failure to cancel registration in any

course for an academic term prior to the first day of the academic term gives rise to an obligation to pay student fees including any tuition for the reservation of space in the course.

The institution may withhold permission to register or to receive official transcripts of grades or other services offered by the institution from anyone owing fees or another debt to the institution. If a person believes he or she does not owe all or part of an asserted unpaid obligation, that person should contact the Director of Accounting. The Director of Accounting will review all pertinent information provided by the person and other campus offices and will advise the person of its conclusions.

For more information or questions, contact Colleen Nickles, Senior Director of Financing and Treasury in the CSU Chancellor's Office at (562) 981-4579 or [cnickles@calstate.edu](mailto:cnickles@calstate.edu).

### Federal Refund Policy

Effective September 1, 2000, federal financial aid regulations are very strict concerning dropping classes after receiving Federal Grant Aid. Students are expected to complete a minimum number of units per term. By dropping all classes prior to the 60% mark of the term, students will owe a repayment based on a chart of percentages available in the Financial Aid Office. Once a repayment has been calculated, students have 30 days to repay the funds.

Federal financial aid regulations also state that students may not pay a prior debt with future financial aid. This means that students must repay the amount due prior to receiving future financial aid. Before deciding to drop classes, students should meet with a Financial Aid Advisor in the Financial Aid Office in University Hall to make an appointment with a financial aid advisor. The advisor will calculate the expected repayment of federal grant funds and will explain options.

### Estimated Costs per Quarter

It is estimated that full-time students each quarter pay about \$405 for books and \$750 to \$1,300 for fees plus parking costs.

### Parking Services

<http://adminfin.csusb.edu/parking>

Parking Services is located in TO-209 (behind the Pfau Library). Parking personnel can be reached at (909) 537-5912, or [parking@csusb.edu](mailto:parking@csusb.edu). Parking Services maintains two Information Centers located on University Parkway and on Coyote Drive where information regarding parking and special events is available. Daily parking permits may be purchased at these locations. Parking officers provide services such as battery jumps and vehicle unlocks, as well as providing parking and general campus information. In addition to enforcing the campus parking regulations, officers patrolling the lots report criminal and suspicious activity directly to University Police Dispatch.

The State of California does not provide funds to construct, operate, or maintain parking facilities on state university campuses. Parking fees are collected to fund parking lot repair, maintenance, and the construction of new parking lots and facilities.

All vehicles parking on campus must display a permit and/or decal issued by the university. A permit and/or decal is only valid if properly displayed. Quarterly and annual permits may be purchased at Parking Services located in TO-209 or the Bursar's Offices located in Sierra Hall and University Hall. Daily parking permits are available from ticket dispensers located at University Parkway, University Village, Serrano Village Drive, Coyote Drive, Sierra Drive, Lot A, Lot A Annex, Lots G and L, and between Lots E and F. Permits are valid in all lots except for those with special designation-the Science Lot and Lot M. The Science Lot is open to students after 5:00 p.m. 30-minute parking spaces are available throughout the campus, and are marked with green curbs and/or signs. Metered parking is also available in Lot G for visitors. Each meter will allow for the purchase of up to one hour of parking. Additional time can be purchased prior

to the time expiring. Drivers are cautioned to observe any restrictions posted on curbs or signs throughout the campus, as parking regulations are strictly enforced at all times.

CSUSB provides disabled parking spaces conveniently located throughout the campus. Persons with disabilities who display a special disabled person placard or license plate may park in any of the following parking spaces with a valid CSUSB parking permit: spaces with the International Symbol of Access (wheelchair symbol), blue designated parking spaces authorized for disabled parking, unlimited parking in green (posted time limit) spaces, metered spaces, or any unmarked parking space.

Drivers assume all risks when parking on campus. Neither the university nor the State of California assumes any liability for loss or damage to vehicles or property when parked on university property.

**Commuter Services** (promoting alternate modes of transportation), which is a branch of Parking Services, is located in University Hall, Room 130, and can be reached at (909) 537-7433 (RIDE). This program is funded by the fines and forfeiture revenues (parking violation money). Commuter Services is dedicated to promoting alternate modes of transportation to faculty, staff and students by providing the following services:

- Quarterly carpool permits
- Carpool ride matching services
- Vanpool services
- Discounted Metrolink passes
- Metrolink schedules
- Omni Trans bus schedules

Additionally, Commuter Services' mission is to increase the number of drivers who use an alternate transportation mode (i.e. carpool, vanpool, walk, bike, bus or metrolink) so that the number of single occupancy vehicles are reduced.

# ACADEMIC REGULATIONS

All students who register at California State University, San Bernardino in resident study must first be admitted to the university by the Office of Admissions and Student Recruitment.

No student may attend classes unless officially registered and appropriate fees have been paid. Students are required to make all payments on the regularly announced days.

Students are granted credit only for those courses in which they are formally registered and are responsible for completing all courses under their name on the schedule confirmation list, except those courses they officially change through My Coyote Self Service.

## Class Level of Students

Students are classified at the end of each quarter according to total earned credits accepted for transfer and/or completed at California State University, San Bernardino as follows:

<u>Status</u>	<u>Units earned</u>
<b>Lower-division</b>	
Freshman . . . . .	0-44.9 quarter units
Sophomore . . . . .	45-89.9 quarter units
<b>Upper-division</b>	
Junior . . . . .	90-134.9 quarter units
Senior . . . . .	135 quarter units or more
<b>Post-Baccalaureate</b> . . . . .	Holding a baccalaureate degree from an accredited college and not pursuing a graduate degree program (2nd B.A./certificate)
Unclassified . . . . .	No degree or credential objective, pursuing a 2nd B.A. or B.S. or certificate
Conditionally classified . . . . .	completing prerequisite requirements for the credential
Classified . . . . .	Pursuing a credential
<b>Graduate</b> . . . . .	Post-baccalaureate student pursuing a graduate degree
Conditionally classified . . . . .	Completing prerequisite requirements for graduate degree
Classified . . . . .	Admitted to the degree program

## Academic Information Sessions

<http://www-ugs.csusb.edu/advising>

**All new undergraduate students, including entering freshmen and transfers, must attend an Undergraduate Studies Academic Information Session prior to meeting with an advisor and registering. Failure to do so will result in a denial of a student's registration request.** Only students who have been admitted by the university can attend a session. Dates for these sessions are provided by the Office of Admissions and Student Recruitment or the Office of Records, Registration and Evaluations.

Advising and Academic Services faculty and staff conduct each session with information concerning EPT/ELM, basic skills, academic advising, registration, university rules and regulations, credit summaries and university support services.

## Advising

Students must take responsibility for the decisions which affect their academic progress. Faculty and staff at the university are available to assist students by providing academic advisement during their office hours or by appointment.

However, before a student meets with an advisor, the following steps are highly recommended:

1. Become knowledgeable about university policies, procedures and requirements.
2. Bring an updated copy of the Program Advising Worksheet for Students (PAWS) to the advising appointment.
3. Develop a tentative course schedule using the *University Bulletin*, *Class Schedule* and PAWS.
4. Gather all relevant decision-making information such as work schedules or other time commitments.
5. Prepare a list of questions or topics to discuss with the advisor. This is a good opportunity to discuss educational and career goals.

**Faculty Advisor.** Students have the opportunity to meet with a faculty advisor each term for help in planning their academic programs and schedules of classes. Usually, the faculty advisor is from the student's major field. To make contact with an advisor, call the appropriate department office as listed in the *Class Schedule*, which also gives information about the university's certificate and credential programs. Students who have not yet declared a major should contact Advising and Academic Services for an appointment. All students should confer with an advisor on a regular basis.

## Academic Probation

First-term undergraduate students who are placed on academic probation must confer with an Advising and Academic Services advisor prior to registration and must adhere to that advisor's specific recommendations which are designed to improve the student's grade point average.

## Academic Course Load

Students planning to finish their undergraduate degree requirements in four years by attending three quarters each year must complete a minimum of 15-16 units per quarter. To be considered full-time for veteran's benefits and financial aid purposes, an undergraduate student must enroll in a minimum of 12 units. With their advisor's consent, students may carry up to 19.5 quarter units per term.

**Unit Overloads.** A student may carry 20 or more units only upon petition to his or her college dean. Normally, petitions are approved only if both the grade point average for the previous term and the overall grade point average are 3.0 ("B") or better. Additional units may be added at the beginning of the first day of classes, if classes remain open and the overload is approved.

## Mandatory Basic Skills

College-level skills in written communication (composition), computation (mathematics), oral communication, and critical thinking are basic to success at the university. To qualify for Freshman Composition and General Education mathematics courses, all new students must take the English Placement Test (EPT) and the Entry Level Mathematics (ELM) tests before registering for their first quarter of attendance. See Page 65 for exemptions. All new students who have not completed Freshman Composition and the General Education mathematics requirement (or equivalent courses) must enroll in a Freshman Composition course (ENG 101) and a General Education mathematics course (MATH 110, 115, 120, 192, or 211). They must remain enrolled in these courses until each requirement has been completed. Students who do not qualify for enrollment in those courses must enroll in appropriate developmental courses (ENG 85 or 95; MATH 75, 80 or 90, depending on EPT/ELM scores) until they are qualified to enroll in the General Education courses.

Students must complete the remediation in mathematics and English composition during the first year of enrollment unless granted an exception. The year begins July 1 and ends June 30. Failure to meet these requirements will result in the ending of matriculation at CSUSB. Contact Advising and Academic Services for special circumstances at (909) 537-5034.



## Accelerated Progress

Some students choose to accelerate progress toward completion of their objectives through a program of independent study and registration for additional course credits.

In addition, credit-by-examination procedures permit students to demonstrate their mastery of the content of local courses, as described below, or courses offered through the Advanced Placement Program or the subjects tested by the College Level Examination Programs described on Page 40.

Students wishing to enroll for additional course work during the academic year should follow the procedures described in the section on academic course load, above.

## Credit for Comprehensive Examination Courses

Any student admitted to this campus may earn degree credit for no more than three comprehensive examination courses regardless of the total units earned in those courses. This maximum is to be counted separately from all other out-of-class curriculum options (for example, credit by examination). The student's major discipline may further restrict the number of comprehensive examination credits acceptable toward the major.

In cases where the subject matter of a comprehensive examination course duplicates that of a course taken previously, the university's Repeat of Course policy will apply (see Page 51). In no instance will duplicate credit be awarded for a repetition of subject matter.

## Credit by Examination

A student may petition to receive course credit by examination. In this manner a student who already possesses, or through independent study is able to acquire, the skills or knowledge of the ideas and concepts of a course can accelerate progress through the university. Students must register for the examination in the office of the college or department concerned before the first day of classes of the term in which the course is offered. Some presumptive evidence is required to indicate that the student has a reasonable chance of passing the examination. The student must complete the examination within the first two weeks of the term. Courses may be designated by a college, department or appropriate unit as inappropriate to be challenged by examination on the basis that course content is not suited to such examination.

No fee is charged for these examinations. A student who passes an examination is given the grade of CBE (see Page 50 for definition of this grade) for that course, provided that this does not duplicate credit counted for his admission to the university. No official record is made of failures in these examinations.

Examinations for course credit are given under the following restrictions:

1. They may be taken only by students currently enrolled at the university in courses other than the one(s) to be challenged.
2. They may not be taken by students who have received credit for work in the subject in advance of the course in which the examination is requested, except where permission is granted by the college or department concerned.
3. They may not be taken to raise grades or remove failures in courses.
4. Once students have successfully challenged a course, they may not subsequently enroll in the course for credit. Units attempted, units earned and grade points for any such enrollment will be disallowed.
5. A maximum of 40 units of credit may be received through such examinations.
6. A student may repeat an examination for credit only upon approval of the associate provost for academic programs.
7. Credit by examination may not be used to fulfill the minimum residence requirement.

8. The course must be offered during the term in which the examination is taken. However, students may not enroll in a course they plan to challenge. If the challenge is unsuccessful, the student may add the course subject to the regulations for adding a class printed in the *Class Schedule*.

Exact times and places of examinations are announced by the departments concerned. Students who wish to take an examination should consult the departmental office well in advance.

For regulations concerning credit by examination in graduate programs refer to Page 353.

## Concurrent Enrollment

A student in good academic standing at California State University who has completed at least 18 quarter units of work at the university, and who is eligible to register as a continuing student for the subsequent term, may enroll concurrently at another college. Note that students attending CSUSB on I-20 visas are not eligible for concurrent enrollment.

Undergraduate students wishing to complete courses at another institution must submit a Concurrent Enrollment contract with the Office of Records, Registration, and Evaluations 2-3 weeks prior to the start of the term. Credit may not be awarded for course work completed without this prior approval. Approval will only be granted for local California Community Colleges, or other local institutions with which articulation agreements are in place. Upon completion of the course(s), the student must request an official transcript be sent to CSUSB.

Courses that use non-traditional off-campus delivery systems, such as self-paced instruction, correspondence courses, or on-line computer instruction and testing may be required to be proctored through our Counseling and Testing Office.

Limits on courses that would create course overloads must follow the procedures established by this campus. See Academic Course Load - Unit Overloads for procedures.

For CSU Intrasystem, Intersystem, and UCR Cross-Registration, see page 40 and 41.

## ROTC Programs

The **Air Force Reserve Officer Training Corps (ROTC)** is an educational program designed to give men and women the opportunity to become an Air Force officer while completing a bachelor's or graduate degree. The Air Force ROTC program is designed to prepare students to assume positions of increasing responsibility and importance while on active duty in the Air Force. Multi-year scholarships are available for books, tuition, and fees associated with various major fields of study. Students may attend ROTC classes on campus while enrolled in any of the area's two or four year colleges. For more information contact the Aerospace Studies Department, Temporary Offices, (909) 537-5440.

The **Army ROTC** is a two or four year program which leads to a commission in the U.S. Army and trains students for positions of responsibility in the active Army, Army Reserve, or National Guard. The university has the only ROTC program in San Bernardino and Riverside counties. Scholarships, simultaneous enrollment in the National Guard or Army Reserve, specialized summer training, and other challenging activities are some of the benefits of the program. Students may attend ROTC classes on this campus, and attend any of the other two- or four-year colleges in the area. For more information about Army ROTC at CSUSB, consult the Military Science portion of the catalog, or contact the ROTC Office, Temporary Offices, (909) 537-5533.

## Class Schedule

An official *Class Schedule*, prepared each quarter by the university, includes the registration schedule, procedure for registration, fees, classes offered by hours and instructors, and other pertinent registration information. The schedule is available just prior



to advisement and priority registration each quarter and may be purchased at the Coyote Bookstore. Students are responsible for being aware of information contained in the *Class Schedule*.

### Registration Procedures

All registration, including schedule adjustments (adds and drops) and late registration, will be accomplished using My Coyote Self Service.

**Simultaneous Enrollment.** Procedures have been established whereby a student may enroll in two courses that are scheduled to meet at overlapping times. The student should procure a Petition for Waiver of University Regulations from Advising and Academic Services, meet with instructors for both of the courses involved to make special arrangements, and obtain the written approval of both instructors. All other registration procedures apply, including using Add Slips for courses that are closed or enrollment after the second week of class.

### Late Registration

The dates of late registration each term will be announced in the *Class Schedule*. The university calendar, Page 4, lists registration dates. Late registrants may find themselves handicapped in arranging their programs due to closed classes. A \$25 late registration fee is required for students not already enrolled by the late registration deadline.

### Auditing Courses

Enrollment in any course as an auditor shall be permitted only after students otherwise eligible to enroll in the course on a credit basis have had an opportunity to do so and only upon consent of the instructor. Auditors are subject to the same fee structure as credit students, and regular class attendance is expected.

Credit for courses audited will not subsequently be granted on the basis of the audit. Transcripts are not issued for audited courses.

Once enrolled as an auditor, a student may not change to credit status unless such a change is requested within the first week of class and is approved by the instructor. Students registered for credit may change their status from that of an enrolled student to that of an auditor with the approval of the class instructor concerned and within the first three weeks of class.

Forms for such changes may be obtained at the Office of Records, Registration and Evaluations in University Hall.

### Class Attendance

Regular attendance is expected of all students enrolled at the university. The instructor of each class sets specific standards expected of students.

A student absent from classes is responsible for arranging to make up missed class work and assignments. In cases of prolonged absence, the student should investigate the feasibility of withdrawal from the university.

### Adding Classes

During the Open Enrollment and Schedule Adjustment period (see *Class Schedule* for specific dates) students may add classes by following the Registration Instructions detailed in the *Class Schedule*. It is important to note that students who add a class or classes after the first scheduled class session may find themselves at a distinct disadvantage in terms of doing well in the class(es). Students should also be aware that they are responsible for any material they may have missed as a result of adding after the first day.

**Adding an Open Class.** Beginning with the first day of classes, students may add classes if space is available through the first week (five business days) of the quarter via My Coyote Self Service. During the second week of the quarter, classes may be added with the permission of the instructor. During the third week of the quarter,

students will need the permission of the instructor and the department chair in order to add a class. Students may not add classes after the end of the third week of the quarter except for serious and compelling reasons and only with the approval of the instructor, the Department Chair, and Dean of the College in which the course resides. For questions concerning this policy, contact Records, Registration and Evaluation at (909) 537-5200.

**Adding a Closed Class.** During the first three weeks of the quarter, students may add a closed class with the permission of the instructor and the department chair. Students may not add closed classes after the end of the third week of the quarter except for serious and compelling reasons and only with the approval of the instructor, the Department Chair, and Dean of the College in which the course resides.

**Retroactive Add.** Requests for adding a class following the close of the term (retroactive add) will only be considered in the event of an error on the part of the university. Petitions for retroactive adds will be considered by the Dean of Undergraduate Studies for undergraduates or the Dean of Graduate Studies for post-baccalaureate and graduate students and will require documentation from the instructor which will show that the student attended the class and earned a passing grade.

### Dropping Classes

**Census Date.** The policy on dropping classes frequently refers to the Census Date. The Census Date is the last day classes can be dropped without a record on the student's transcript. Specific Census Dates for each term are printed in the current *Class Schedule* or *Bulletin*.

Students should read this section carefully to understand fully when and for what reasons they may drop a course themselves. Students transferring from other institutions should note that the last day to drop a class without a record of enrollment, takes place much earlier at CSUSB than they may have been accustomed to at other institutions.

It is the students' responsibility to verify their schedule prior to the Census Date. A grade will be assigned for every course in which they are officially registered. **It is also the students' responsibility to drop any class which they do not plan to attend and complete.** While an instructor may drop a student for non-attendance during the first three weeks of classes (see "Administrative Drop Policy"), **the student should not assume this will be done.**

**Dropping classes through the census date.** During the Open Enrollment and Schedule Adjustment period (see *Class Schedule* for specific dates) students may drop classes by following the Registration Instructions detailed in the *Class Schedule*. Students may drop a class during the first three weeks of the fall, winter, or spring quarters (i.e. from the first day of instruction through Census Date), and the course will not appear on their permanent records; however, a refund will not be granted if the drop is beyond the refund deadline date. See the *Class Schedule* for specific dates for each quarter, including summer.

**Dropping classes after the census date.** Drops after the third week of the term are permitted only for serious and compelling reasons. These may include cases involving serious accident or illness (physical or mental), serious personal or family problems, military transfer, or substantial change in employment during the quarter. The student will be required to submit a petition with documentation to support the request to drop the course. Poor performance or poor attendance in the course will not be allowed as an acceptable reason to drop a course during this period.

Petitions to drop after census are available in the offices of the five Colleges and in Academic Services for undeclared students. Drops during this period will require written documentation along with the signature of the instructor, the department chair of the class, and the Dean of the College of the student's major. Courses

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officially dropped during this time period will show a grade notation of "W" (withdraw) on the student's transcript for the dropped course(s). Students receiving a "W" are still subject to fees for the courses.

Students who do not officially drop will receive a grade notation of WU (unauthorized withdrawal) in the course, which for purposes of grade point averages and progress point computation, is equivalent to an "F." Students receiving a "WU" are still subject to fees for the courses. Failure to follow formal university procedures may result in an obligation to pay fees as well as the assignment of failing grades in all courses not officially dropped, and the need to petition for readmission before being permitted to enroll in another academic term.

### Administrative Drop

Faculty members **may** initiate an administrative drop of a student in their courses based on any one of the following criteria.

**Lack of attendance.** Students who fail to attend two consecutive class meetings during the first three weeks of the term without contacting the faculty member or making special arrangements **may** be dropped.

**Prerequisites not met.** Students who are unable to show completion of required courses or who do not have the background needed to succeed in the course **may** be dropped.

**Declared majors.** Students who have not been formally admitted to certain major programs will be dropped from courses that are open only to declared majors in that program. To remain in such classes, permission of the instructor may be required.

Students who are administratively dropped will receive a notice from the Office of Records, Registration, and Evaluation. Students should not assume they are automatically disenrolled unless written confirmation is received.

If the administrative drop reduces the student's unit load below 6.1 units, the student may be eligible for a refund of certain fees. However, it is the student's responsibility to file a request for a refund of fees by the deadline printed in the *Class Schedule*. Questions regarding refunds should be addressed to the Accounting Office at 537-5153.

### Term Withdrawal

Students who find it necessary to cancel their registration or to withdraw from **all classes** after enrolling for any academic term are required to follow the University's official Term Withdrawal procedures outlined in the *Class Schedule*. Failure to follow formal University procedures may result in an obligation to pay fees, as well as the assignment of failing grades in all courses, and the need to petition for readmission before being permitted to enroll in another academic term.

Students who receive financial aid funds must consult with the Financial Aid Office prior to withdrawing from the University regarding any required return or repayments of grant or loan assistance received for that academic term or payment period. If the recipient of student financial aid funds withdraws from the institution during an academic term or payment period, the amount of grant or loan assistance received may be subject to return and/or repayment provisions. Therefore, it is highly recommended that all students who receive financial aid funds consult with the Financial Aid Office PRIOR to withdrawing to avoid unanticipated financial hardships.

**Term Withdrawal through Census Date.** During the Open Enrollment and Schedule Adjustment period (see *Class Schedule* for specific dates) students may withdraw from the University by following the Registration Instructions detailed in the *Class Schedule*. Students may withdraw from the University during the first three weeks of the fall, winter, or spring quarters (i.e. from the first day of instruction through Census Date) and will have no record of enrollment listed on their permanent record. A refund will not be granted if

the drop is beyond the refund deadline date. See the *Class Schedule* for specific dates for each quarter, including summer.

**Term Withdrawal after Census Date.** Students will not be permitted a Term Withdrawal after Census Date except in cases involving serious accident or illness (physical or mental), serious personal or family problems, military transfer, or substantial change in employment during the term. The student will be required to submit a petition with documentation to support the request to withdraw. Poor performance or poor attendance in the course will not be allowed as an acceptable reason to withdraw during this period.

Petitions to drop after census are available in the offices of the five Colleges and in Academic Services for undeclared students. Withdrawals during this period will require written documentation along with the signature of the instructor, the department chair of the class, and the Dean of the College of the student's major. All courses during this time period will show grade notations of "W" (withdraw) on the student's permanent record. Students receiving a "W" are still subject to fees for the courses.

**Retroactive Term Withdrawal.** Requests for Retroactive Term Withdrawals will be considered only for accident or illness (physical or mental), serious personal or family problems, or military transfer. Documentation is required. In addition, extenuating circumstances must be shown to have prevented withdrawal in a more timely fashion. Employment-related reasons are not acceptable. Partial withdrawal of grades during a term is not permissible unless special circumstances exist and the dean of the student's major grants approval. Otherwise, **all** courses must be withdrawn and will be noted with a "W" on the permanent record. Lack of awareness of the withdrawal procedure is not an extenuating circumstance.

Requests by undergraduates must be made in writing to the Director of Advising and Academic Services in UH-380. Requests by unclassified postbaccalaureate students, credential candidates and graduate students must be made in writing to the Dean of Graduate Studies, AD-127.

### Leave of Absence

Degree seeking undergraduate students who plan to be absent from the university for more than two consecutive quarters must file a leave of absence to preserve their current catalog rights (Title 5, Article 5, See. 40401). A petition, available through the Office of Advising and Academic Services, UH-380, 537-5034, must be filed and approved.

The leave of absence policy covers both involuntary and voluntary interruptions. In most instances, with an approved leave of absence, a student may be absent from the campus without losing rights to specific degree requirements under an earlier catalog.

Petitions for leaves of absence should be filed in advance of the interruption in enrollment. Each leave commences with the first regular quarter of non-attendance. Requests for medical and military leaves may be considered retroactively if supported by individual circumstances, but those requests must be filed no later than Census Date of the third regular quarter of non-attendance. Personal and planned educational leaves cannot be retroactive since they constitute an agreement or "contract" which must be set in advance. The maximum duration for any leave is two calendar years although exceptions to the two-year limit may be granted under extenuating circumstances.

Leaves of absence will not be approved for students subject to disqualification or dismissal due to academic deficiencies or disciplinary action. Other students ineligible for leaves of absence are those who are not completing any degree applicable course work, those who are enrolling only in extension courses or those who are only auditing courses.

Students who do not return to CSU, San Bernardino at the conclusion of their planned leaves and those who enroll elsewhere without permission of the Office of Records, Registration and Evalu-

ations will be considered to have withdrawn from the university at the end of their last quarter of regular enrollment.

International students must submit a copy of the leave of absence petition to the International Center, UH-235. Visa students must be registered as full-time students except, when after three consecutive quarters of regular enrollment they decide to take a quarter off. All leave of absence periods must be approved by ISS prior to taking the leave in order to report the students properly to the Bureau of Citizenship and Immigration Services (BCIS). As a general rule, visa students must go back to their home country when applying for a leave of absence, as their primary goal in the U.S. is to obtain an academic degree.

The following Leaves of Absence may be requested:

**Medical Leave of Absence:** Requests must be accompanied by a statement from a medical doctor explaining why the student must interrupt enrollment. Exceptions to the two-year limit may be granted under extenuating circumstances.

**Military Leave of Absence:** For those being inducted, requests must be accompanied by a copy of military orders indicating the induction date. For students being called to active military service, Title 5, Section 40401, provides for an extended leave of absence up to a maximum of two years due to approved educational reasons and for circumstances beyond a student's control. The university will approve a leave for students called for active military service as a result of mobilization of U.S. military reserves. Students will retain their catalog rights and may register for subsequent quarters. In the case of students called for active military service, the university will authorize withdrawals throughout the quarter. For additional information, assistance with dropping current classes and other processing, see the veteran's coordinator in the Office of Records, Registration and Evaluation (UH-171, 537-5213).

**Personal and Planned Educational Leaves of Absence:** These leaves are defined as a planned interruption or pause in a student's regular education during which the student temporarily ceases formal studies at CSU, San Bernardino. The student must plan to return to CSU, San Bernardino at the end of the leave. Such activities may be for the purpose of clarifying or enriching educational goals or to allow time to address personal matters and thus enhance the prospect of successful completion of the student's academic program.

Since students on leave maintain their catalog rights, courses completed at other institutions must have received prior approval in order to be transferred back to CSU, San Bernardino. Therefore, a student must also file a concurrent enrollment form with the Office of Records, Registration and Evaluations to obtain that approval. Failure to file a concurrent enrollment form may result in coursework not being accepted and revised G. E. and major requirements being required.

**Returning from Approved Leave of Absence.** When students plan to return from their leave, a readmission form, available through the Office of Records, Registration and Evaluations must be submitted within the filing period for the quarter of return. No application fee will be assessed for leaves of absence that meet the terms of the leave agreement.

## Final Examinations

Written examinations of two hours' duration are held at the close of each term. In courses extending over more than one term, the examination in the concluding term may also cover work done in the preceding term or terms. Examinations may not be taken before or after the scheduled period nor may the time of an examination be changed without authorization by the dean of the appropriate college. Permission to take a final examination with a different section in the same course may be granted by the dean of the appropriate college with the consent of the instructors concerned. Failure to take or to pass any final or other course examinations will result in such deficiencies as instructors may assign.

## Final Grade

Final grades will be available to students within two weeks after the last day of each quarter except for Fall quarter grades which will be available the first business day of the following January. Grades are accessed through My Coyote Self Service.

## Grade/Academic Grievance Procedures

Office of the Associate Dean of Undergraduate Studies, AD-183

[http://academic-affairs.csusb.edu/progs/grade\\_policy](http://academic-affairs.csusb.edu/progs/grade_policy)

Information concerning grade grievances and other academic grievances may be obtained from the Office of the Associate Dean of Undergraduate Studies in AD-183 or from College Deans' offices. Generally, a grade grievance must be initiated by the student within no more than 40 working days after the grade is recorded.

Information concerning nonacademic grievances and discrimination complaints may be obtained from the Office of the Vice President for Student Affairs, UH-231, other Vice Presidents' offices, and College Deans' offices. A grievance or complaint must be filed within no more than 40 calendar days after the student learned or reasonably should have learned of the occurrence of the grievance/complaint event. These policies can also be accessed at <http://studentaffairs.csusb.edu/policies.html>.

## Grades

The grade symbols used at the university are as follows:

Grade symbol	Performance level	Grade points per quarter hour
A	Excellent	4.0
A-		3.7
B+		3.3
B	Good	3.0
B-		2.7
C+		2.3
C	Satisfactory	2.0
C-		1.7
D+		1.3
D	Passing	1.0
D-		.7
F	Failing	.0
WU	Withdrawal Unauthorized	.0
U	Unauthorized Incomplete	.0
I	Incomplete Authorized	
IC	Incomplete Charged	.0
RP	Report in Progress	
SP	Satisfactory Progress	
CR	Credit	
NC	No Credit	
CBE	Credit by Exam	
CBX	Credit By Exam (Remedial Course)	
AU	Audit	
RD	Report Delayed	
W	Withdrawn	
WF	Withdrawn Failing	.0
FW	Failed, Withdrew	.0
UW	Unofficial Withdrawal	.0

All courses, except those specifically designated otherwise, will be graded on the A through F basis.

Grade point averages are computed by dividing the number of grade points earned by the number of units attempted. Only units and grade points earned by a student while enrolled at this university are used to compute the resident grade point average. Grades from courses numbered 1-99 are not computed in this average.

The following administrative grades carry no grade points and are, therefore, not used to determine a student's grade point average. However, it should be pointed out that the Incomplete will be



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counted as an F if not removed within one calendar year from the date it was assigned.

CBE	Credit by Examination
CBX	Credit by Examination/Remediation
CR	Credit
I	Incomplete (Authorized)
NC	No Credit
RD	Report Delayed
RP	Report in Progress
SP	Satisfactory Progress
W	Withdrawal
WU	Withdrawal Unauthorized

The administrative grade of UW (previously U) carries no grade points but is included in determining units attempted. Thus, it is equivalent to an F.

**Expanded Grade Symbol Definitions**

**A (Excellent):** Meeting course requirements with a superior level of performance. A is recognized to be an honors evaluation.

**B (Good):** Meeting course requirements with a high level of performance.

**C (Satisfactory):** Meeting course requirements with an acceptable performance.

**D (Passing):** Meeting course requirements with minimally adequate performance.

**F (Failing):** Inadequate performance or not meeting course requirements.

**CR (Credit):** A satisfactory or better level of performance, equivalent to the grade of "C" (2.0) or better, has been demonstrated in meeting course objective. For graduate courses, equivalent to grade of "B" (3.0) or better.

**NC (No Credit):** Performance at an unsatisfactory or failing level, equivalent to a grade of "C-" (1.7) or less. For graduate courses, equivalent to a grade of less than "B-" (2.7). Does not award credit for the course or affect grade point average.

**CBE (Credit by Exam):** This symbol indicates that a student has successfully passed a course through an examination. Awards units earned toward degree. It is not included in the calculation of grade point averages.

**CBX (Credit by Exam/Remediation):** This symbol indicates that a student has successfully passed a remedial course through an examination. Does not award units earned toward a degree. It is not included in the calculation of grade point average.

**I (Incomplete):** An Incomplete signifies that a portion of required course work has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified reasons and that there is still a possibility of earning credit. It is the responsibility of the student to bring pertinent information to the instructor and to reach agreement on the means by which the remaining course requirements will be satisfied. A final grade is assigned when the work agreed upon has been completed and evaluated. Students should not re-enroll in the course.

An Incomplete must be made up within one calendar year immediately following the end of the term in which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. Failure to complete the assigned work will result in an Incomplete being converted to an IC (or an NC if applicable) for grade point average computation. Note: In some instances the instructor may have indicated on the Incomplete Form a grade to be assigned in the eventuality that the remaining course work is not completed.

Students may not receive an "I" grade in any applicable degree course for the term in which their graduation check is filed. Students will be required to refile their grad check for the term in which the outstanding requirements are fulfilled.

**IC (Incomplete Charged):** The IC symbol is used when a student who received an authorized incomplete "I" has not completed the required course work within the allowed time limit. The "IC" replaces the "I" and is counted as a failing grade for grade point average and progress point computation.

**RD (Report Delayed):** The RD symbol is used in those cases where a delay in the reporting of a grade is due to circumstances beyond the control of the student. The symbol is assigned by the Office of Records, Registration and Evaluations and is replaced by a more appropriate grading symbol as soon as possible. An RD is not included in the calculation of grade point averages.

**RP (Report in Progress):** The RP symbol is used in connection with courses that extend beyond one academic term. It indicates work is in progress but that assignment of a final grade must await completion of additional work. Work is to be completed within one year except for graduate degree theses. (Previously SP.)

**W (Withdrawal):** The symbol W indicates that the student was permitted to withdraw from the course after the 15th day of instruction with approval of the instructor and appropriate campus officials. It carries no connotation of quality of performance and is not used in calculating grade point average.

**WU (Withdrawal Unauthorized):** The symbol WU indicates that an enrolled student did not withdraw from the course and also failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities or both were insufficient to make normal evaluation of academic performance possible. For purposes of grade point average and progress point computation this symbol is equivalent to an "F." (Previously U.)

**Policy on Nontraditional Grading**

All courses are graded on an A through F basis, except those specifically designated as follows:

**Credit/no credit:** Credit is awarded for grades equivalent to C (2.0) or better. For graduate level courses, credit is awarded for grades equivalent to a grade of B (3.0) or better. No credit is awarded for grades equivalent to C- or less. For graduate level courses, no credit is awarded for grades equivalent to "B-" or less.

**ABC/no credit:** Grades awarded are A, A-, B+, B, B-, C+ or C. No credit is awarded for grades equivalent to C- or less.

Certain activity courses, independent study projects, and other courses serving special needs are not readily evaluated in the traditional A through F manner. The non-traditional credit/no credit grading allows faculty to award credit for satisfactory performance in an activity, rather than assign a letter grade when such performance cannot be evaluated traditionally.

Courses graded credit/no credit, whether taken at this or at another institution, may not be used to satisfy requirements for the major, except specific courses designated by the department to be graded credit/no credit.

Students who, because of a change of major or because of transfer from another institution or for any other reason, present courses in the major field which have been graded on a credit/no credit basis may, at the discretion of the department or other appropriate academic unit, be required to pass competency examinations at an acceptable level or to take prescribed alternate courses before being allowed to continue in the major.

A student may offer no more than 36 quarter units of work graded credit/no credit in satisfaction of the total units required in the student's baccalaureate degree program at California State University, San Bernardino. This number includes any combination of units graded credit/no credit earned at California State University, San Bernardino and any other institution or institutions, excepting that all units accepted for transfer credit from another institution at the time of the student's admission to the university may be used toward the



satisfaction of the total units required for the baccalaureate degree. Acceptance for transfer credit by California State University, San Bernardino of 36 quarter units or more graded credit/no credit at another institution or institutions precludes the student from offering courses graded credit/no credit at California State University, San Bernardino, for satisfaction of units required for the baccalaureate degree.

Course grades of credit received under a credit-by-examination program are exempt from the 36-unit limitation.

## Retention, Academic Probation and Disqualification

For purposes of determining a student's eligibility to remain at the university, quality of academic performance toward the student's objective shall be considered. Such eligibility shall be determined by the use of grade point average. Also see the Student Conduct Code (see Page 534) for other regulations governing expulsion, suspension, and probation. This policy is in effect beginning Fall 2003 following the Minimum Requirements for Probation and Disqualification established by Executive Order No. 823.

### Academic Probation

An undergraduate student is subject to academic probation if at any time the cumulative grade point average in all college work attempted or the cumulative grade point average at California State University, San Bernardino falls below 2.0 (Title 5, California Code of Regulations, Section 41300 (a)). The student shall be advised of probation status promptly.

An undergraduate student shall be removed from academic probation when the cumulative grade point average in all college work attempted and the cumulative grade point average at California State University, San Bernardino is 2.0 or higher.

### Academic Disqualification

An undergraduate student on academic probation is subject to academic disqualification (as authorized by Section 41300 (b) of Title 5) when:

1. As a freshman (fewer than 45 quarter units of college work completed) the student falls below a grade point average of 1.50 in all units attempted or in all units attempted at the campus where enrolled.
2. As a sophomore (45 through 89.9 quarter units of college work completed) the student falls below a grade point average of 1.70 in all units attempted or in all units attempted at the campus where enrolled.
3. As a junior (90 through 134.9 quarter units of college work completed) the student falls below a grade point average of 1.85 in all units attempted or in all units attempted at the campus where enrolled.
4. As a senior (135 or more quarter units of college work completed) the student falls below a grade point average of 1.95 in all units attempted or in all units attempted at the campus where enrolled.

The President (as authorized by Section 41300 (c) of Title 5) has designated the Director of Advising and Academic Services to act to disqualify an individual not on probation when the following circumstance exists:

1. At the end of any term, the student has a cumulative grade point average below 1.0, and
2. The cumulative grade point average is so low that in view of the student's overall educational record, it seems unlikely that the deficiency will be removed within a reasonable period, as defined by campus academic policy.

## Notice of Disqualification

Students who are disqualified at the end of any quarter under any of the provisions of this policy should be notified before the beginning of the next consecutive regular quarter. Students disqualified at the beginning of a summer enrollment break should be notified at least one month before the start of the fall term. In cases where a student ordinarily would be disqualified at the end of a term, save for the fact that it is not possible to make timely notification, the student may be advised that the disqualification is to be effective at the end of the next term. Such notification should include any conditions which, if met, would result in permission to continue in enrollment. Failure to notify students does not create the right of a student to continue enrollment.

**Probation and Disqualification** of post-baccalaureate and graduate students are subject to Section 41300 (d), (e), and (f) of Title 5 and criteria established by the Office of Graduate Studies. (See Standards for Graduate Study on Page 350.)

### Administrative-Academic Probation

An undergraduate or graduate student may be placed on administrative-academic probation by action of appropriate campus officials (as authorized by Section 41300.1 of Title 5) for any of the following reasons:

1. Withdrawal from all or a substantial portion of a program of studies in two successive terms or in any three terms. (Note: A student whose withdrawal is directly associated with a chronic or recurring medical condition or its treatment is not to be subject to Administrative-Academic probation for such withdrawal.)
2. Repeated failure to progress toward the stated degree objective or other program objective, including that resulting from assignment of 15 units with grades of NC, when such failure appears to be due to circumstances within the control of the student.
3. Failure to comply, after due notice, with an academic requirement or regulation, as defined by campus policy, which is routine for all students or a defined group of students (examples: failure to complete a required CSU or campus examination, failure to complete a required practicum, failure to comply with professional standards appropriate to the field of study, failure to complete a specified number of units as a condition for receiving student financial aid or making satisfactory progress in the academic program).

When such action is taken, the student shall be notified in writing and shall be provided with the conditions for removal from probation and the circumstances that would lead to disqualification, should probation not be removed.

### Administrative-Academic Disqualification

A student who has been placed on administrative-academic probation may be disqualified from further attendance (as authorized by Section 41300.1 of Title 5) if:

1. The conditions for removal of administrative-academic probation are not met within the period specified.
2. The student becomes subject to academic probation while on administrative-academic probation.
3. The student becomes subject to administrative-academic probation for the same or similar reason for which he has been placed on administrative-academic probation previously, although not currently in such status.

When such action is taken, the student shall receive written notification including an explanation of the basis for the action.

### Administrative Contract Appeal and Readmission Process

A student placed on academic probation may appeal this action by contacting the Director of Advising and Academic Services. A student placed on academic probation may be required to meet

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with an academic advisor and sign an Administrative Contract with Advising and Academic Services. Failure to meet with an advisor and sign a contract or failure to meet the terms of the Administrative Contract will result in a registration service indicator hold for future enrollment.

A student subject to disqualification will not be permitted to enroll in any regular term and may be denied admission to other educational programs operated or sponsored by the university. The student must contact the Office of Advising and Academic Services at (909) 537-5034 in order to receive the guidelines to petition for readmission. See the statement on Readmission of Previously Disqualified Students on Page 38 for further details.

### Repeat of Courses: Undergraduates

1. The discounting of a grade in a repeated course is by petition only. Petitions should be filed after completion of the course for the second time. Discounting, as used in these guidelines, means that when computing grade point averages required for graduation with a baccalaureate degree, "units attempted," "units passed" and "grade points" for the first attempt shall be excluded. The first attempt will still show on the transcript with the repeat (discount) noted.
2. Students may repeat a course only once in order to have the first grade discounted. The grade earned in the second attempt will be the grade used. Repetitions subsequent to the second attempt will be averaged when determining cumulative grade point averages.
3. The grades in no more than five different courses may be discounted by repeating them.
4. A course may not be repeated for the purpose of removing an Incomplete. Incompletes that have changed to an "IC" or a letter grade may be discounted on repeat.
5. Students on dismissal may repeat a course through the Extended Learning Open University program and petition to have the grade earned treated as though it were taken in residence.
6. If the course which was taken at CSUSB is repeated elsewhere, the grades will be averaged in determining a student's overall grade point average. Repeating a course elsewhere will have no effect on a student's CSUSB grade point average.
7. Grades for courses taken at one institution (other than CSUSB) and repeated at another institution (other than CSUSB) will be averaged when determining a student's cumulative transfer grade point average.
8. CSUSB will honor the repeat-of-course policy in effect at the institution issuing the transfer transcript.
9. Students may repeat courses transferred from other institutions at CSUSB and the transfer grade will be discounted if provisions of the pertinent preceding guidelines are met. Course equivalency will be determined by the evaluation section of the Office of Records, Registration and Evaluations.
10. Unclassified postbaccalaureate students may be permitted to repeat a course taken as an undergraduate. However, the grade earned shall not replace the grade in the undergraduate record.
11. Courses taken for undergraduate credit may not be repeated for discount as a postbaccalaureate student.

Unless expressly allowed, credit may not be awarded for a course that has been previously completed, either at California State University, San Bernardino, or elsewhere, unless a petition is filed to discount the first attempt.

Contact the Office of Records, Registration and Evaluations, (909) 537-5200, for questions regarding grade discounts.

### Academic Renewal

Under certain circumstances, a student may petition to have up to two semesters or three quarters of previous course work disregarded from all considerations associated with requirements for the baccalaureate degree. In order for this to happen the following

conditions must be met:

1. The work to be disregarded must have been completed at least five years before the date of the petition to disregard it.
2. The student has completed all GE, major and elective requirements with the exception of the cumulative and/or CSUSB grade point average of 2.0. The student must demonstrate that it would be necessary to complete additional units and enroll for one or more additional terms in order to qualify for the baccalaureate if the request were not approved.
3. During the interval since completing the work to be disregarded, the student must have maintained a satisfactory record at CSUSB (22 units with at least a 3.0 grade point average; 45 units with at least a 2.5 grade point average; or 67 units with at least a 2.0 grade point average).
4. Under special circumstances, a student who was admitted on probation through the administrative contract process may petition to have up to three quarters or two semesters of previous coursework disregarded from all consideration for the baccalaureate degree if ALL of the following conditions are fulfilled:
  - a. the work to be disregarded must have been completed at least five years before the date of the petition to disregard it;
  - b. the student must make the request for this academic renewal within the first academic year of attendance at CSUSB;
  - c. during the interval since being admitted and the petition request, the student must have completed a minimum of eight units and maintained an above satisfactory record at CSUSB with at least a 3.0 grade point average;
  - d. the student must be on administrative contract in Academic Services at the time the petition is filed.

The approval will allow the student to be in good academic standing. Students seeking academic renewal should consult with the Director, Advising and Academic Services (UH-380).

### Plagiarism and Cheating

Plagiarism and cheating are violations of the Student Discipline Code (see Appendix) and may be dealt with by both the instructor and the Judicial Affairs Officer. Procedures for addressing cheating and plagiarism are found below. Questions about academic dishonesty and the policy should be addressed to the Office of the Vice President, Student Services.

Plagiarism is the act of presenting the ideas and writing of another as one's own. Cheating is the act of obtaining or attempting to obtain credit for academic work through the use of any dishonest, deceptive, or fraudulent means.

Cheating includes but is not limited to:

- Copying, in part or in whole, from another's test, software, or other evaluation instrument;
- Submitting work previously graded in another course unless this has been approved by the course instructor or by departmental policy;
- Submitting work simultaneously presented in two courses, unless this has been approved by both course instructors or by the department policies of both departments;
- Using or consulting during an examination sources or materials not authorized by the instructor;
- Altering or interfering with grading or grading instructions;
- Sitting for an examination by a surrogate, or as a surrogate;
- Any other act committed by a student in the course of his or her academic work, which defrauds or misrepresents, including aiding or abetting in any of the actions defined above.

Plagiarism is academically dishonest and subjects the offending student to penalties up to and including expulsion. Students must make appropriate acknowledgements of the original source where material written or compiled by another is used.

**Procedure.** Allegations of academic dishonesty may be handled directly by the instructor or may be referred by the instructor to the Judicial Affairs Officer.

If handled by the instructor, the instructor has the following responsibilities:

- To preserve the evidence in support of the allegation;
  - To notify the student of the allegation and of the evidence on which it is based;
  - To provide the student a reasonable opportunity to challenge or rebut the allegation;
  - To notify the student of the action being taken.
- The instructor may employ any of the following sanctions:
- Verbal or written reprimand;
  - Assignment of appropriate task or examination;
  - Change of grade, including assigning a punitive grade to the work involving the dishonesty, or for the course, project, thesis, or any other summary evaluation of the student's academic work.

If the student does not wish to accept the sanction proposed by the instructor, the student may request and require that the allegation be referred to the Judicial Affairs Officer. In that event, the procedures specified under Executive Order 628 (Student Disciplinary Procedures of the California State University) shall be observed. The instructor shall not impose any sanction other than the sanction(s) imposed through the disciplinary procedure.

### Declaring (or changing) a Major

Work in a major field of study is designed to afford students the opportunity to engage in intensive study of a discipline. Because there is a strong correlation between having a declared major and persistence at the university, all students are strongly encouraged to declare a major as quickly as possible. Students may declare a major at the time of admission. For some students, there will be a period of time early in their academic careers when they are unsure of the course of study they wish to pursue, and those students may take longer to declare a major. All CSUSB students with fewer than 70 quarter units must declare a major by the time they achieve junior class status (90 quarter units). Students transferring to CSUSB with 70 or more quarter units are strongly encouraged to declare a major when they matriculate.

In order to declare or change a major, students should process a Change of Major form through the Office of Records, Registration and Evaluations. Before submitting the Change of Major, students should contact an advisor in the new major for advising. Students who declare a major or change from one major to another following admission will be held to either:

1. The current catalog for requirements of the major and to the catalog under which they entered for other college requirements (for example, general education), or
2. The catalog in effect at the time of graduation for all requirements.

Note that dual concentrations within the same major will require approval from the Department Chair.

A processing fee will be assessed each time a student files a Change of Major form. (See *Class Schedule* for fee.)

**Required Declaration of a major.** A non-transfer CSUSB student who has not declared a major will receive a notice from the office of Advising and Academic Services when the student has 70 units (this will count work in progress). The notice will require that the student come into the office of Advising and Academic Services and meet with an advisor to talk about selecting a major. A registration service indicator hold will be placed on the student's file, and the student will not be allowed to register for a subsequent term until he or she has come in for that appointment. Counseling regarding the selection of a major will be the focus of that appointment leading to referral to an academic department or, in some

cases, to the Career Development Center. A student who does not declare a major by the time he or she has completed 90 quarter units will not be allowed to register without the approval of the Director of Advising and Academic Services.

The procedure for transfer students will depend on the total number of units CSUSB counts toward the student's degree. Students who receive credit for fewer than 70 quarter units will be held to the same timeline for declaring a major as students who began at CSUSB as first-time freshmen. Students who come in with 70 or more quarter units will be required to declare a major after they have completed 20 units at CSUSB. If a major is not declared at admission, the transfer student will receive a notice from the Office of Advising and Academic Services. The notice will require that the student come into the office of Advising and Academic Services and meet with an advisor to talk about selecting a major. A registration hold will be placed on the student's file, and the student will not be allowed to register for a subsequent term until he or she has come in for that appointment. Counseling regarding the selection of a major will be the focus of that appointment leading to a referral to an academic department or, in some cases, to the Career Development Center. If a major is not declared by the completion of 20 quarter units at CSUSB, a transfer student held to this policy will not be allowed to register without the approval of the Director of Advising and Academic Services.

### Election of Graduation Requirements

A student remaining in continuous attendance in regular sessions and continuing in the same major in this university, in any of the California community colleges, or in any combination of California community colleges and campuses of the California State University, may, for purposes of meeting graduation requirements, elect to meet the graduation requirements in effect at this university either at the time of entering the program or at the time of graduation from this university, except that substitutions for discontinued courses may be authorized or required by the proper university authorities. (See Leave of Absence, Page 48.)

### University Honors

**University Honors for graduation.** To be considered for University Honors for graduation, an undergraduate student must have completed a minimum of 45 units of work at California State University, San Bernardino in courses for which letter grades (A, B, C and D) were received. University Honors for commencement are based on the student's units and grade point average through the end of the quarter prior to commencement.

- *Highest Honors:* an overall cumulative undergraduate grade point average of 3.9 or above and a grade point average of 3.9 or above in all work attempted at this university.
- *High Honors:* an overall cumulative undergraduate grade point average of 3.75 or above and a grade point average of 3.75 or above in all work attempted at this university.
- *Honors:* an overall cumulative undergraduate grade point average of 3.5 or above and a grade point average of 3.5 or above in all work attempted at this university.

**Dean's List.** An undergraduate student completing 12 or more units for which letter grades (A, B, C and D) were received, and who earns a 3.5 or above in any regular academic term will be placed on a Dean's List.

- *Dean's Letter of Recognition.* Any full-time undergraduate student, meeting the above requirements, who earns a 4.0 in any regular academic term will receive a letter of special recognition from the appropriate dean.
- *Presidential Letter of Recognition.* Any full-time undergraduate student, meeting the above requirements, who earns a 4.0 in three consecutive regular academic terms will receive a letter of special recognition from the president of the university.



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**Departmental Honors.** Individual departments may award departmental honors at graduation, recognizing distinguished students majoring in that field. The requirements to be met to earn honors are specified by the respective departments. Departmental honors are currently awarded in accounting and finance, anthropology, biology, chemistry, communication, computer engineering, computer science, criminal justice, economics, English, environmental studies, French, geography, geology, health science, history, human development, human services, information and decision sciences, kinesiology, liberal studies, management, marketing, mathematics, music, nursing, philosophy, physics, political science, psychology, public administration, sociology and Spanish.

### Graduation Requirement Check

Students must request a graduation requirement check at the Office of Records, Registration and Evaluations (UH-171) prior to the end of the term of their expected graduation. To avoid late fees, the graduation check should be filed by the established deadlines listed below. To be eligible to file the grad check, the undergraduate students must have completed 135 quarter units towards their degree. This may include current work in progress.

Graduate students must follow the same established deadlines for **filing** the graduation requirement check. Note that Advancement to Candidacy is required before the graduation check can be **completed**.

Graduation Term	Filing Date (first business day)
Summer Quarter	January
Fall Quarter	February
Winter Quarter	May
Spring Quarter	November

The fee for filing the graduation check is \$25. If the graduation check is filed after the deadline, an additional \$15 fee will be charged. Students who do not complete the requirements in the term for which the graduation check was filed, must re-file and pay a \$20 fee for a second graduation check. If the re-filed graduation check is submitted after the deadline date, an additional \$15 late fee will be charged.

Access to subsequent registration will not be allowed until the graduation check has been re-filed or a graduate/postbaccalaureate application is submitted for readmission.

The Office of Records, Registration and Evaluations will mail the official Graduation Requirement Check to the address listed on the Grad Check Request form.

### Diplomas

Diplomas are issued for a specific degree. Minors are not included on the diploma. This information is recorded on the student's university transcript.

Students earning a Special Major will automatically receive a diploma stating "Special Major." Students wishing to have a diploma reflect the field of study will need to purchase a duplicate diploma requesting this additional information. Duplicate diploma forms are available in the Office of Records, Registration and Evaluations and require a \$25 processing fee.

### Commencement

Academic Affairs/Academic Resources Commencement Office  
(909) 537-7050

Participation in commencement activities is voluntary. CSUSB has two commencement exercises, one in December and one in June.

### December 2008

Summer 2008, prospective December 2008 and March 2009 candidates are eligible to participate in the December 2008 commencement exercises. In order to obtain commencement information to all eligible students, the deadline to file a graduation check and be included in the commencement program is the last working day in October.

### June 2009

December 2008, March 2009 and prospective June and September 2009 candidates are eligible to participate in the June 2009 commencement exercises. In order to obtain commencement information to all eligible students, the deadline to file a graduation check and be included in the commencement program is the last working day in April.

Students who do not file a graduation check within the specified time period may still participate in commencement but will not have their names included in the commencement program. Appropriate information will be sent to students. Graduates and candidates wishing to participate in the commencement ceremony will be required to pay a commencement fee of \$35.

### Palm Desert Campus

The Palm Desert Campus holds one commencement exercise in June. In order to obtain commencement information to all eligible students, the deadline to file a graduation check and be included in the commencement program is the last working day in April. The commencement fee can be paid online or at the Palm Desert Office. Questions regarding this exercise should be directed to the Palm Desert Campus Administrative Office (760) 341-2883. Palm Desert Campus graduates have the option of also participating in the main campus exercises.

### Master's Students

In order to participate in commencement, students completing a master's degree must file a grad check AND meet the eligibility requirements specified by their program. For the specific requirements, students should consult their program coordinator or go to <http://gradstudies.csusb.edu>.

### Credential Students

Students completing a Multiple Subject, Single Subject, or Education Specialist Basic credential during September 2008 through August 2009 are eligible to participate in a Credential Recognition Ceremony rather than commencement. Only one Credential Recognition Ceremony will be held in June 2009. Specific information can be obtained in the College of Education Office, CE-102, (909) 537-5290. This event is also held for the Palm Desert campus students, which will be held in May, 2009. Contact the Teacher Education Office, at the Palm Desert Campus

### Post-Baccalaureate Credit for Senior Students

Upon approval, senior students who need fewer than 16 quarter units to graduate may be permitted to enroll for postbaccalaureate credit during the final quarter of their senior year. Post-baccalaureate credit is used to signify courses taken after the baccalaureate degree, but does not necessarily mean graduate credit, i.e., credit applicable toward an advanced degree. Only 300- to 600-level courses will be considered. A petition for this purpose is available in the Office of Records, Registration and Evaluations. Note: Some 500- and 600-level courses require prerequisites and are open only to students classified in a master's program.



## Information for Issuance of Transcripts

Single transcripts are issued at a cost of \$4 per copy, payable in advance. (Refer to fee schedule in the *Class Schedule* or Page 40.) Copies are normally mailed two weeks after receipt of request. However, if the request specifies inclusion of grades just earned or verification of a degree just awarded, two to three weeks must be allowed beyond the end of the term for a transcript to be issued.

All transcripts will be complete as of the date of issuance showing all work attempted at California State University, San Bernardino.

The university will not issue transcripts to the student, another educational institution or a third party if there is a transcript service indicator hold in place. The student must contact the Office of Records, Registration and Evaluations once the hold has been lifted so that the transcript request can be processed.

## Access to Records

All student records, including recommendations, are kept by the university in accordance with the Family Educational Rights and Privacy Act of 1974, which allows students access to their records. Inquiries and concerns about this federal regulation should be directed to the Office of the Vice President for Student Services for further information.

## Veterans Information and Enrollment Certification

California State University, San Bernardino, is approved for the training of veterans of the military services and their dependents under educational assistance programs, established by the state and federal governments. Applications for educational benefits may be obtained directly from the veterans certification clerk in the Office of Records, Registration and Evaluations.

Student enrollment certification is based on the following minimum unit loads for undergraduates:

- Full time . . . . . 12 quarter units
- 3/4 time . . . . . 9-11.5 quarter units
- 1/2 time . . . . . 6-8.5 quarter units

The university will certify course loads to the Veterans Administration based on the criteria above for units which are degree or objective applicable. Veterans enrolled less than half time are eligible for reimbursement of tuition and fees only.

# Minors

Minors can only be granted for the same term in which the student graduates with an undergraduate degree. The requirements for minors are listed under appropriate majors in the catalog. All minors require a 2.0 grade point average. Minors will not be automatically dropped if the requirements have not been fulfilled by the term for which the student's graduation is posted.

**Accounting**

Department of Accounting and Finance, JB-459,  
(909) 537-5704. See Page 77.

**Anthropology**

Department of Anthropology, SB-327J, (909) 537-5502.  
See Page 86.

**Applied Physics**

Department of Physics, PS-119, (909) 537-5397.  
See Page 293.

**Arabic**

Department of World Languages and Literatures, UH-314,  
(909) 537-5847. See Page 91.

**Art History**

Department of Art, VA-105, (909) 537-5802. See Page 97.

**Asian Studies**

Department of World Languages and Literatures, UH-314,  
(909) 537-5847. See Page 103.

**Biology**

Department of Biology, BI-329, (909) 537- 5305.  
See Page 111.

**Business Administration**

College of Business and Public Administration, JB-278,  
(909) 537-5700. See Page 77.

**Business Information Mapping**

Department of Information Decision Sciences, JB-460,  
(909) 537-5723. See Page 77.

**Chemistry**

Department of Chemistry and Biochemistry, CS-204,  
(909) 537-5318. See Page 119.

**Chicano(a)/Latino(a) Studies, Ethnic Studies**

College of Social and Behavioral Sciences, SB-207,  
(909) 537-7500. See Page 181

**Communication**

Department of Communication Studies, UH-018,  
(909) 537-5815. See Page 125.

**Computer Science**

Department of Computer Science and Engineering, JB-307,  
(909) 537-5326. See Page 134.

**Criminal Justice**

Department of Criminal Justice, SB-209, (909) 537-5506.  
See Page 141

**Economics**

Department of Economics, SB-327D, (909) 537-5511.  
See Page 148.

**English**

Department of English, UH-334, (909) 537-5824.  
See Page 171.

**Entrepreneurship**

Department of Management, JB-461, (909) 537-5731.  
See Page 77.

**Environmental Studies**

Department of Geography and Environmental Studies, SB-327J,  
(909) 537-5519. See Page 179.

**Ethnic Studies**

College of Social and Behavioral Sciences, SB-207,  
(909) 537-7500. See Page 180.

**Film Studies**

Department of Communication Studies, UH-018,  
(909) 537-5815. See Page 125.

**Finance**

Department of Accounting and Finance, JB-459,  
(909) 537-5704. See Page 78.

**French**

Department of World Languages and Literatures, UH-314,  
(909) 537-5847. See Page 189.

**Geography**

Department of Geography and Environmental Studies, SB-327J,  
(909) 537-5519. See Page 192.

**Geology**

Department of Geological Sciences, PS-219 (F), BI-113A  
(WS); (909) 537-5336. See Page 197.

**German**

Department of World Languages and Literatures, UH-314,  
(909) 537-5847. See Page 200.

**Graphic Design-Print**

Department of Art, VA-105, (909) 537-5802. See Page 97.

**Graphic Design-Web**

Department of Art, VA-105, (909) 537-5802. See Page 97.

**Health Science**

Department of Health Science and Human Ecology, JB-263,  
(909) 537-5339. See Page 206.

**History**

Department of History, SB-327F, (909) 537-5524.  
See Page 216.

**Human Resources Management**

Department of Management, JB-461, (909) 537-5731.  
See Page 78.

**Information Management**

Department of Information Decision Sciences, JB-460,  
(909) 537-5723. See Page 78.

**Intercultural Communication**

Department of Communication Studies, UH-018,  
(909) 537-5815. See Page 126.

**Islamic and Middle Eastern Studies**

Department of History, SB-327F, (909) 537-5524.  
See Page 235.

**Jazz Studies**

Department of Music, PA-111, (909) 537-5859. See Page 272.

**Kinesiology**

Department of Kinesiology, HP-120, (909) 537-5349.  
See Page 238.

**Latin American Studies**

College of Arts and Letters, UH-201.44, (909) 537-5858.  
See Page 244.

**Management**

Department of Management, JB-461, (909) 537-5731.  
See Page 78.

**Marketing**

Department of Marketing, JB-458, (909) 537-5749.  
See Page 78.

**Mathematics**

Department of Mathematics, JB-370, (909) 537-5361.  
See Page 263.

**Music**

Department of Music, PA-111, (909) 537-5859. See Page 272.

**Nutrition and Food Sciences**

Department of Health Science and Human Ecology, JB-263,  
(909) 537-5339. See Page 286.

**Paralegal Studies**

Department of Criminal Justice, SB-209, (909) 537-5506.  
See Page 142.

**Philosophical Logic**

Department of Philosophy, UH-339, (909) 537-5869.  
See Page 288.

**Philosophy**

Department of Philosophy, UH-339, (909) 537-5869.  
See Page 288.

**Physics**

Department of Physics, PS-119, (909) 537-5397.  
See Page 293.

**Political Economy**

Department of Economics, SB-327D, (909) 537-5511.  
See Page 148.

**Political Science**

Department of Political Science, SB-112, (909) 537-5535.  
See Page 297.

**Pre-Law**

Department of Political Science, SB-112, (909) 537-5535.  
See Page 297.

**Psychology**

Department of Psychology, SB-425, (909) 537-5570.  
See Page 301.

**Public Administration**

Department of Public Administration, JB-456, (909) 537-5758.  
See Page 78.

**Public Relations**

Department of Communication Studies, UH-018,  
(909) 537-5815. See Page 126.

**Real Estate**

College of Business and Public Administration, JB-278,  
(909) 537-5700. See Page 79.

**Recording Arts**

Department of Music, PA-111, (909) 537-5859. See Page 272.

**Recreation**

Department of Kinesiology, HP-120, (909) 537-5349.  
See Page 238.

**Script Writing**

Department of Theatre Arts, PA-111, (909) 537-5876.  
See Page 126, 171, 332.

**Sociology**

Department of Sociology, SB-327, (909) 537-5541.  
See Page 319.

**Spanish**

Department of World Languages and Literatures, UH-314,  
(909) 537-5847. See Page 323.

**Sports Management**

Department of Management, JB-461, (909) 537-5731.  
See Page 79.

**Studio Art**

Department of Art, VA-105, (909) 537-5802. See Page 97.

**Supply Chain Management**

Department of Information Decision Sciences, JB-460,  
(909) 537-5723. See Page 79.

**Theatre Arts**

Department of Theatre Arts, PA-111, (909) 537-5876.  
See Page 332.

**Women's Studies**

Women's Studies Program, UH-201.46, (909) 537-5838.  
See Page 344.

# CERTIFICATE PROGRAMS

The university offers a variety of programs leading to a certificate of competency in special areas. Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to impart specified professional/vocational/career competencies, or produce mastery of the content of a sub-field of an academic major (discipline), or provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Courses offered for the certificate may be the same ones used to satisfy major, minor, credential or general education requirements. In order to qualify for a certificate, undergraduate candidates must earn a grade point average of 2.0 ("C") or better in applicable course work. Post-baccalaureate candidates must earn a grade point average of 2.5. Standards for individual programs may exceed this minimum. Candidates must also receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

The certificate is awarded upon confirmation that the requirements for that program have been satisfied. The candidate is responsible for filing an application with the Office of Records, Registration and Evaluations for granting of the certificate, no later than the last term of certificate-applicable study, and for notifying the coordinator of the certificate program of completion of required course work. The awarding of a certificate will be noted on the student's transcript.

Further information regarding the certificates offered by the university can be found under the appropriate department.

## Certificate Programs Offered

### Accounting

Department of Accounting and Finance, JB-459,  
(909) 537-5704. See Page 79.

### Ambulatory Care/Group Practice Management

Department of Health Science and Human Ecology,  
HP-235, (909) 537-5339. See Page 206.

### Applied Cultural Anthropology

Department of Anthropology, SB-327J, (909) 537-5502.  
See Page 86.

### Arabic

Department of World Languages and Literatures, UH-314,  
(909) 537-5847. See Page 91.

### Archaeology

Department of Anthropology, SB-327J, (909) 537-5502.  
See Page 86.

### Bilingual/Cross-Cultural Studies: Spanish/English

Department of World Languages and Literatures,  
UH-314, (909) 537-5847. See Page 324.

### Biotechnology

Department of Biology, BI-329, (909) 537-5305. See Page 112.

### Business Skills for the Artist

Department of Art, VA-105, (909) 537-5802. See Page 98.

### Coaching

Department of Kinesiology, HP-120, (909) 537-5349.  
See Page 239.

### Communication Skills

Department of Communication Studies, UH-018,  
(909) 537-5815. See Page 126.

### Community Mental Health

Department of Health Science and Human Ecology,  
HP-235, (909) 537-5339. See Page 206.

### Computer Systems and Programming

Department of Computer Science and Engineering, JB-307,  
(909) 537-5326. See Page 135.

### Criminal Justice

Department of Criminal Justice, SB-209, (909) 537-5506.  
See Page 142.

### Fitness Management

Department of Kinesiology, HP-120, (909) 537-5349.  
See Page 239.

### French/English Translation

Department of World Languages and Literatures,  
UH-314, (909) 537-5847. See Page 189.

### Geographic Information Systems

Department of Geography and Environmental Studies,  
SB-327J, (909) 537-5519. See Page 193.

### German/English Translators

Department of World Languages and Literatures,  
UH-314, (909) 537-5847. See Page 200.

### Gerontology

Department of Sociology, SB-327, (909) 537-5541.  
See Page 319.

### Health Care Management

Department of Health Science and Human Ecology,  
JB-263, (909) 537-5339. See Page 207.

### Human Resources

Department of Management, JB-461, (909) 537-5731.  
See Page 80.

### Information Systems Management

Department of Information and Decision Sciences,  
JB-460, (909) 537-5723. See Page 80.

### International Relations

Department of Political Science, SB-112, (909) 537-5535/5534.  
See Page 298.

### Introductory Actuarial Science

Department of Mathematics, JB-370, (909) 537-5361.  
See Page 263.

### Islamic and Middle Eastern Studies

Department of History, SB-327F, (909) 537-5524.  
See Page 235.

### Latin American Studies

Department of Anthropology, SB-327J, (909) 537-5502.  
See Page 86.

### Museum Studies

Department of Anthropology, SB-327J, (909) 537-5502.  
See Page 86.

### Paralegal Studies

Coordinator's Office, SB-209C, (909) 537-5506.  
See Page 142.

### Puppetry

Department of Theatre Arts, PA-111, (909) 537-5876.  
See Page 333.

### Recreation Leadership

Department of Kinesiology, HP-120, (909) 537-5349.  
See Page 239.

### Social Services

Department of Sociology, SB-327, (909) 537-5541.  
See Page 319.

### Spanish for Public Services

Department of World Languages and Literatures,  
UH-314, (909) 537-5847. See Page 324.



**Sports Management**

Department of Management, JB-461, (909) 537-5731.  
See Page 80.

**Supply Chain Management**

Department of Information and Decision Sciences,  
JB-460, (909) 537-5723. See Page 80.

**Teaching Basic Mathematics**

Department of Mathematics, JB-370, (909) 537-5361.  
See Page 264.

**Theatre for Youth**

Department of Theatre Arts, PA-111, (909) 537-5876.  
See Page 333.

**Urban Planning**

Department of Geography and Environmental Studies,  
SB-327J, (909) 537-5519. See Page 193.

**Women's Studies**

University Hall, Room 201.46, (909) 537-5838.  
See Page 345.

**Writing: Creative Writing**

Department of English, UH-334, (909) 537-5824.  
See Page 171.

**Writing: Professional Writing**

Department of English, UH-334, (909) 537-5824.  
See Page 172.

**The following certificates are restricted to graduate students only:****Conflict Management**

Department of Communication Studies, UH-018,  
(909) 537-5815 or Department of Management, JB-461,  
537-5731. See Page 379.

**Crosscultural, Language and Academic Development (CLAD)**

Teacher Education Office, CE-102, (909) 537-5650.  
See Page 420.

**Early Adolescent Education**

Department of Educational Psychology and Counseling,  
CE-243, (909) 537-5606. See Page 420.

**Early Childhood Special Education**

Department of Educational Psychology and Counseling,  
CE-243, (909) 537-5606. See Page 420.

**Education of the Gifted and Talented**

Department of Educational Psychology and Counseling,  
CE-243, (909) 537-5606. See Page 421.

**Educational Professional Services**

Teacher Education Office, CE-102, (909) 537-5603.  
See Page 421.

**Educational Technology**

Department of Science, Mathematics and Technology  
Education, CE-335, (909) 537-5290. See Page 421.

**Environmental Education**

Environmental Education Office, PL-279, (909) 537-5640.  
See Page 421.

**Intelligence Methodology**

National Security Studies Office, SB-112, (909) 537-5534.  
See Page 475.

**Reading/Language Arts**

Department of Language, Literacy and Culture,  
CE-261, (909) 537-7405. See Page 421.

**Rehabilitation Counseling**

Department of Educational Psychology and Counseling,  
CE-243, (909) 537-5606. See Pages 422 and 497.

**School Business Management**

Department of Educational Leadership and Curriculum,  
CE-374, (909) 537-7404. See Page 422.

# EXTENDED LEARNING

## College of Extended Learning

Sierra Hall, Room 134  
(909) 537-5975  
<http://cel.csusb.edu>

The College of Extended Learning (CEL) at California State University, San Bernardino offers a variety of programs and services to extend the resources of the university to the community. These resources include faculty and staff, degree programs, noncredit offerings, customized training programs, facilities and program facilitation and support.

The California State University regards its Extended Learning credit-bearing programs as integral parts of the institution. These programs are viewed as extensions of the university's educational services and are in concert with its overall mission and purpose. The programs and courses offered through CEL meet the standards of quality which the institution sets for its other programs and courses, in terms of resources, faculty, level of instruction, evaluation and support services.

### EXTENSION PROGRAMS

#### Extension

A variety of credit and noncredit extension courses are offered to meet the lifelong educational needs of residents in the Inland Empire, the Coachella Valley and beyond. Taught by university faculty and academically qualified practitioners, many of these courses provide professional development in business, management, education, health care, human services and other fields, with the aim of improving one's effectiveness on the job or opening doors to new careers.

The College of Extended Learning offers many certificate programs that can help participants gain a competitive edge for upward mobility in their workplace. Current certificate programs and workshops include:

#### Business/Management:

- Construction Management Series
- Grant Development and Management
- Human Resources Management
- Management and Leadership Skills Series
- Mediation, Negotiating and Conflict Resolution
- Records Management
- School Business Management
- Supervisory Skills Training Series

#### Computer Systems:

- Computer-Aided Drafting (CAD)
- Computer Graphics and Design
- Online Microsoft Certified IT Training
- Web Page Design

#### Education:

- Arts and Crafts
- Health and Human Services
- Learning and Teaching Strategies
- Mathematics and Science
- On-line Technology Integration, K-12
- Primary Reading Development
- Reading/Writing/Literature
- School Business Management
- Spanish Interpreting and Translation in a School Setting
- Test Preparation

The 1000-level extension courses offered through Extended Learning are designed with professional growth in mind and, in most cases, apply toward continuing education requirements and salary advancement for teachers.

Many extension courses are offered off campus including a variety of courses at the Soda Springs Desert Studies Center near Baker, California. In outdoor classrooms, students can explore the life-ways of early man, archaeology, geology, flora and fauna, art and much more. (See Page 22)

Extended Learning also offers numerous on-line career training courses and personal enrichment courses in areas such as writing, recreation, music, test preparation courses and travel. An array of exciting courses for kids also is offered on a regular basis. For more information, call (909) 537-5975.

### Inservice Credit for Training Programs

Schools, school districts and other organizations interested in planning special staff development programs may contact the College of Extended Learning to arrange for university credit. Training programs that meet academic criteria set forth by CSUSB can provide participants with CEU hours or extension credit (non-degree applicable credit) that can be used toward school district requirements for salary increases. The application process is simple and quick. For more information, call (909) 537-5976.

### WORKPLACE TRAINING/ CONTRACT PROGRAMS

The College of Extended Learning provides training development programs, certificate programs, conferences, and educational components for grants on a contractual basis for business (large and small), private industry, health care organizations, not-for-profit organizations and government agencies.

In direct consultation with the participating organization, the College of Extended Learning will develop custom-designed professional development programs including language programs to accelerate the professional effectiveness, productivity and problem-solving skills of the organization's staff. For more information, call (909) 537-5979.

### CONFERENCE SERVICES

The College of Extended Learning's conference services division provides conference support for educational institutions, professional organizations, business and industry.

Depending upon the scope and content of the particular conference, the College of Extended Learning may be able to arrange for meeting and meal facilities, keynote speakers and other program presenters, registration support, certificates of completion and, in many cases, professional advancement continuing education credit in several fields.

The campus is conducive to supporting groups up to 400, providing ample meeting space and a picturesque setting in the foothills of the San Bernardino mountains. The College of Extended Learning also features an extensive off-campus program, managing conferences of more than 3,000 people in a number of venues in California, the United States and internationally. For more information, call (909) 537-5995.

### ON-LINE CAREER TRAINING PROGRAM

The College of Extended Learning also offers on-line career training programs that have been designed to provide training and skills necessary to acquire professional career positions in a variety of in-demand occupational areas such as business, health care, health sciences, education, law enforcement, Internet, design and information technology.

In addition, the College of Extended Learning offers a series of non-degree level math classes that provide basic math skills training, algebra and geometry in preparation for tests such as the GED, CBEST, or pre-employment tests. For more information, visit <http://cel.csusb.edu>

### **OSHER LIFELONG LEARNING INSTITUTE**

The Osher Lifelong Learning Institute is a partnership between the College of Extended Learning and CSUSB's Palm Desert Campus made possible through generous funding from the Bernard Osher Foundation. Through quarterly memberships in this Institute, retirement-aged seniors in the Coachella Valley can choose courses from an impressive array of non-credit offerings taught by CSUSB faculty and local experts. It's college level learning for the pure joy of it—no tests, no grades, no stress—just stimulating courses at the beautiful Palm Desert Campus and other satellite locations. For more information, call (760) 341-2883, ext. 14425.

### **INTERNATIONAL EXTENSION PROGRAMS**

The College of Extended Learning's International Extension Programs (IEP) Office encompasses and supports CEL's many international programs and initiatives, including the very popular American Culture and Language Program (ACLP), and homestay.

#### **The American Culture and Language Program (ACLP)**

ACLP is designed for international students, visitors, and professionals who seek:

- an intensive English experience focusing on reading, writing and speaking English
- an introduction to American culture
- pre-MBA/graduate studies preparation
- educational and fun field trips
- TOEFL preparation
- academic counseling
- I-20 form for student visas
- month-long American conversation classes

The American Culture and Language Program offers a ten-week program each quarter, a one-month conversation and culture program, and specially designed intensive five-week programs for smaller groups. Many ACLP students eventually matriculate to California State University, San Bernardino.

#### **Homestay Program**

Homestay is a housing option for ACLP students who want to improve their English quickly and learn how American culture really works. Host families from the area want students to become a member of their family. This means spending time with the family in the evenings and on weekends, having fun with them, and participating in daily family activities. A homestay provides a room (single or double), three meals a day, and transportation to and from school.

#### **International Extension Activities**

Other programs/activities offered through the International Extension Programs Office include:

- Short-term language contract programs tailored to the needs of specific groups (groups of 20 or more), focusing on second language for special purposes,
- International extension/continuing education programs including travel/study abroad programs, domestic workplace English programs, international extension workshops, contract training programs focused on international professional practices, culture, and
- International academic programs coordinated in conjunction with CSUSB's academic colleges and departments, such as CSUSB degree programs abroad, certificate and "diploma" programs.

For information on ACLP, Homestay, or any of the international programs offered through the College of Extended Learning's International Extension Programs Office, call the IEP at (909) 537-5978.

### **OPEN UNIVERSITY**

Most courses listed in the university catalog are open to nonmatriculated students through the College of Extended Learning under a program called Open University. Members of the community who meet the prerequisites may enroll in regular campus courses on a space-available basis. Students can apply up to a maximum of 36 units through Open University toward a bachelor's degree and 13 units toward a master's degree (subject to approval by department concerned).

Open University is designed for those who:

- missed the deadline for admission to the regular resident program,
- want to examine a particular field before actually enrolling in a degree program,
- want to update professional training,
- have "dropped out" of CSUSB or want to improve their G.P.A. in order to reenter an academic program, or
- want to take selected CSUSB courses that will transfer to another university.

Students who desire to enroll in Open University classes are required to obtain an application from the College of Extended Learning and approval of the instructor. Graduate level and education credential courses are not available through Open University, and certain other courses are restricted and require departmental approval. Matriculated students are not allowed to enroll concurrently in the Open University program. For more information, call (909) 537-5975.

### **SPECIAL SESSIONS**

In partnership with other colleges within the University, degree and certificate programs are made available through the College of Extended Learning to specific audiences. These programs, known as "Special Sessions," are fully self-supporting. Programs may be offered at off-campus locations nationally and internationally as well as online. Special Sessions degree and/or certificate programs are identical in quality to those offered on campus, and students must be admitted to the University in order to enroll. Through Special Sessions, the College of Extended Learning, in collaboration with other colleges and departments, extends the University's high quality academic programs to audiences that otherwise could not be served. For more information on Special Sessions available through the College of Extended Learning, (909) 537-3907.

# UNDERGRADUATE DEGREE PROGRAMS

## Office of the Dean of Undergraduate Studies

University Hall, Room 352  
(909) 537-5032  
(909) 537-7012 (fax)  
<http://www-ugs.csusb.edu>

The Office of the Dean of Undergraduate Studies has oversight in several broad areas including high school preparation, testing, developmental programs in mathematics and English, the General Education program, the University Honors program, academic advising, and research and policy analysis. The purpose of Undergraduate Studies is to assist students in making their academic careers productive and enjoyable. Contact the office with any questions, comments, or concerns about the University's undergraduate academic programs.

The university offers a full range of academic support programs. These programs are a vital part of the extended education the university offers. Advising and Academic Services, the Learning Center, and the Writing Center are all places with which students should be familiar. In support of its mission to help retain and graduate students, Undergraduate Studies also offers a First-Year Seminar designed to introduce students to the University and to provide them with the academic and personal skills necessary to succeed in a university setting. Other programs are targeted for specific students and may have eligibility requirements. All the programs offered by Undergraduate Studies rest on a solid foundation of assessment and data analysis performed by the Office of Research and Policy Analysis. All of the programs are there to give students the best possible experience and to help students successfully achieve their educational goals.

In addition to programs aimed primarily at undergraduate work, there are several programs that help undergraduate students look forward toward graduate studies. These transitional programs include the McNair Scholars program and several programs aimed at preparation for professional schools. These preprofessional programs include pre-engineering, pre-law, and preprofessional programs in medicine, veterinary medicine, dentistry, and pharmacy.

The baccalaureate degree students earn at California State University, San Bernardino will represent work done in three broad areas: General Education, courses in a major, and free electives. On Page 63, the General Education program will be explained, and all the courses that comprise the General Education program will be listed. It is important to note that not all of these courses will be offered each quarter. Students should consult the *Class Schedule* to find those courses offered during the current quarter. Following the General Education requirements are several important process requirements that must be attended to in order to obtain an undergraduate degree. Finally, beginning on Page 63 are the program requirements and course descriptions required of baccalaureate degrees, minors, certificates, and credentials with appropriate contact information at the beginning of each section.

## UNDERGRADUATE STUDIES

### Advising and Academic Services

University Hall, Room 380  
(909) 537-5034 <http://www-ugs.csusb.edu/advising/>  
[askcsusb@mail.csusb.edu](mailto:askcsusb@mail.csusb.edu) (for advising questions)

Advising and Academic Services provides academic advising for all undeclared students, through the S.T.A.R.S. program, academic retention counseling for all first-time probation students, and information sessions for all new freshman and transfer students. Compliance enforcement for ELM (Entry Level Mathematics)/EPT (English Placement Test), basic skills, upper-division writing, and supervision for the university waiver of regulation petitions are also coordinated through Advising and Academic Services.

The office reviews and acts on the following petition requests: admission by special action, general education course substitutions, retroactive withdrawals, extension of time to remove "Incomplete" grades beyond one year, leave of absence, academic renewal, simultaneous enrollment, drop after census date for undeclared students, and other waivers of university regulations.

In addition, the office provides general education and credit summary assistance for students, academic counseling for continuing probation and dismissed students, educational equity support advising for special admits (TAP program), and supervision for USTD 27 (individualized study contract). Electronic Mail (e-mail) Advising is available for students, faculty, staff and the community for academically related inquiries.

### Educational Opportunity Program

University Hall, Room 395  
(909) 537-5042 <http://www-ugs.csusb.edu/eop/>

The Educational Opportunity Program (EOP) is an admissions and support services program designed to assist students who meet specific income guidelines and demonstrate the potential to obtain a baccalaureate degree offered by the university.

Through the Educational Opportunity Program, the student receives help in admissions; registration; financial aid; housing; curriculum planning; tutoring; personal, academic and career counseling; graduate school information; workshops; and other support services, depending upon individual needs. Students who have been enrolled at the university prior to applying to EOP are not eligible to apply to the program.

### Educational Support Programs

Administration, Room 183  
(909) 537-5044

The Office of Educational Support Programs is responsible for assuring that the policy and procedures of the university's Student Grade and Academic Grievance Procedures are maintained in all grievance procedures. The Office also provides support for the university's retention programs for undergraduate students; coordinates the Special Major program; develops and initiates university-community partnership projects that support the division's goals of enhancing the quality of academic life for students, educational access and graduation, and early outreach.

### Faculty/Student Mentoring Program

Pfau Library, Room 208  
(909) 537-7765 <http://www-ugs.csusb.edu/mentor/>

Mentors make a difference. The Faculty/Student Mentor Program (FSMP) pairs experienced CSUSB students with incoming protégés. Student mentors are an invaluable resource for helping new students make the transition to CSUSB. Student mentors help to guide new students through the first year at the university and make sure that they have someone to turn to when questions arise. In addition to being experienced Cal State students, the mentors are given special training, and they are supported by a faculty coordinator. The FSMP



also offers at least one special trip designed to enhance the CSUSB educational experience each quarter.

### The First-Year Seminar

University Hall, Room 380  
(909) 537-5034

The First-Year Seminar (USTD 100A) introduces students to academic and practical skills necessary to succeed at the university. Upon completion of this course, students will be familiar with the Pfau Library, campus computer facilities, and academic procedures. Students in this course will learn about the academic culture of the university including what it means to be a responsible citizen in the CSUSB community and how personal attitudes will impact the quality of the university experience. The course will offer valuable time management and study skills. The seminar introduces the student to higher learning utilizing a variety of modes of instruction such as guest speakers, discussion, assignments and activity. Goal setting, the importance of understanding personal values, critical thinking, and career preparation are all covered in the course, making the First-Year Seminar ideal for all new students and especially valuable for those who are undeclared.

### Intensive Learning Experience

University Hall, Room 352  
(909) 537-5032

The Intensive Learning Experience (ILE) program provides instruction and advising for students enrolled in Basic English (ENG 85) and/or Basic Mathematics (MATH 75). Each is a course sequence designed for students who need to improve their skills in these areas prior to enrolling in Freshman Composition and one of the General Education mathematics courses. Participation in the ILE program is determined by scores on the English Placement Test and the Entry Level Mathematics test.

While ILE courses do not count toward the units one needs to graduate, they do carry course-load credit. One of the great attractions of these courses is the small class size.

### Learning Center

University Hall, Room 351  
(909) 537-5038 <http://dcr.csusb.edu/LearningCenter>

The Learning Center provides a variety of free academic support programs for CSUSB students. These include tutoring for many undergraduate courses (except English/writing), use of computers (IBMs and Macintoshes) with pay printing, and general study aids. In addition, testing-during limited hours and with the approval of the professor-is administered for students needing make-up exams, students enrolled in self-paced courses, and for those taking challenge exams. For a charge, the Learning Center will also proctor exams for other institutions.

The Learning Center has evening hours four nights a week (Monday-Thursday 8 a.m.-8 p.m.). Note: English/writing tutoring is conducted by the separate Writing Center.

### SAIL Program

University Hall, Room 386  
(909) 537-5921 <http://www-ugs.csusb.edu/sail/>  
[sail@csusb.edu](mailto:sail@csusb.edu)

The SAIL program (Student Assistance in Learning) is the university's federally funded Student Support Services project. Funded by a grant from the U.S. Department of Education, SAIL is designed to assist students who are low-income, disabled, or whose parents have not earned a bachelor's degree. SAIL offers a variety of support services to ensure students' success in college. These include:

- Adjunct courses-two-unit courses designed to help students earn better grades in general education courses.
- Academic and financial aid advising.
- Personal and career counseling.

- College Reading Courses-computer assisted 2-unit courses designed to increase reading speed, vocabulary and comprehension.
- Graduate school information and assistance.
- Grant assistance to eligible Pell grant recipients.
- A variety of educational and enrichment activities.

SAIL serves 325 students each year; the primary enrollment period is September 1st to December 1st.

### Testing

Jack Brown Hall, Room 405  
(909) 537-5045 <http://www-ugs.csusb.edu/testing/>

The Testing Office administers tests applicable to admission, academic placement, and academic achievement. Information regarding application procedures, dates, and fees for American College Testing (ACT) (Institutional), California Basic Educational Skills Test (CBEST), English Placement Test (EPT), Entry Level Mathematics (ELM), Graduate Management Admissions (GMAT), Graduate Record Examination (GRE), and Test of English as a Foreign Language (TOEFL), Professional Assessments for Teachers (PRAXIS), U.S. Constitution, U.S. History and California State and Local Government Exams, and Writing Requirement Exemption Exam (WREE) can be obtained by contacting the Testing Office.

### Writing Center

University Hall, Room 387  
(909) 537-5232 <http://www-ugs.csusb.edu/wc/>

Writing consultants work with students who are composing specific writing projects as well as with faculty members who are incorporating writing as a mode of learning in their courses. Consultants offer individual conferences to students in all disciplines at all stages of their composing processes; conferences focus on interpreting assignments, discovering topics, expanding ideas, clarifying organizational strategies, incorporating counter-arguments, and citing references, as well as on editing and proofreading. Consultants also offer conversation groups to help ESL and other multilingual students negotiate the linguistic and cultural differences in oral and written composition.

As part of the University's Writing-Across-the-Curriculum program, Writing Center staff consult with faculty members who are designing writing components for their courses, conduct in-class writing workshops in courses in all disciplines, and read and respond to manuscripts in preparation.

### Preparation for Professional Schools

The plan of undergraduate study at the California State University, San Bernardino emphasizes a liberal education in preparing for professional or vocational specialization.

Some professions, such as law, stress that candidates for admission to professional schools can best prepare themselves during college by acquiring several fundamental skills. Others, for example, medicine and dentistry, emphasize certain subject matters. A student preparing for either kind of emphasis (skills or specific subjects) has opportunities to do so by selecting, in consultation with an appropriate preprofessional advisor, the kind of curriculum that most soundly meets the standards set by the profession he or she wishes to enter.

### Preprofessional Programs: Medicine, Veterinary Medicine, Dentistry, Pharmacy

The majority of students entering medical and dental schools in the United States do so after having acquired a B.A. or B.S. degree at an undergraduate college. Possession of an undergraduate degree is especially worthwhile, since professional schools do not offer liberal arts subjects.

Any undergraduate major is appropriate for a preprofessional student as long as certain basic subject areas are included in the program. For specific requirements of professional schools, the student is urged to consult special sources such as "Medical School Admission Requirements" (a publication of the Association of American

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Medical Colleges) or a preprofessional advisor in the College of Natural Sciences.

In general, medical and dental schools recommend that the undergraduate degree program include: one year of general chemistry, one year of organic chemistry, one year of general biology, with additional course work in developmental biology and/or comparative anatomy and genetics, and one year of physics. Other courses, e.g., mathematics through calculus and physical chemistry, are often recommended as well.

Since preprofessional programs in dentistry place heavy emphasis on biology and chemistry, these are the two majors most often elected by preprofessional students. A preprofessional student majoring in biology should complete the biology core program, supported by courses in chemistry and physics, and should elect MATH 211 and BIOL 342. See Page 104. A preprofessional student majoring in chemistry should complete the chemistry core program, supported by courses in mathematics and physics, and should elect BIOL 342 and 440.

The science and mathematics components of preprofessional programs in veterinary medicine are quite similar to those for medicine.

Admission to a school of pharmacy can also be gained after two years of undergraduate work. Although entrance requirements vary somewhat, they generally include full-year introductory courses in biology, chemistry, mathematics and physics. A course in organic chemistry is sometimes required as well.

### Pre-engineering Program

Most students earn engineering degrees by attending a university with an accredited program in engineering. Although there are many different engineering disciplines, the first two years of course work is quite similar for most of these fields.

The pre-engineering courses offered allow the student to complete the first two years of courses ranging from generic to engineering. Students may then transfer to an accredited engineering program of their choice.

The advantages to students who enter the pre-engineering program are many. Most engineering schools are very competitive and not all qualified students can be accepted as freshmen. However, it is much easier for a student to qualify as a transfer student. Students with math course deficiencies can enter the pre-engineering program and complete their course work at their own pace. Classes here have smaller enrollments than in large engineering schools and provide students with greater opportunities to interact with the faculty.

The physics faculty, working as pre-engineering advisors, help the student design a course of study specific to the engineering field of interest and to the program to which the student will transfer. For detailed course information, refer to the courses listed under the Department of Physics.

### Preprofessional Program: Law

Applicants for admission to most law schools are expected to have a B.A. or B.S. degree and to have taken the Law School Admission Test. There is no single "prelaw" major required since the successful study of law is more often related to the ability to grasp and solve difficult intellectual problems and to employ disciplined work habits, than it is to any narrow, specialized field of study. However, students headed for law school are well advised to take a small number of selected liberal arts courses in subjects relevant to the law. Accordingly, the College of Social and Behavioral Sciences offers a pre-law minor consisting of such courses. For further information concerning the prelaw minor, see Page 297.

Several broad objectives of prelegal education are set forth by the Association of American Law Schools. These include the oral and written command of language; an understanding and appreciation of social, political and economic values, institutions, problems and

frames of reference; and an ability for creative, innovative, critical and analytical thinking.

For these reasons, every prelaw student should carefully choose, with the aid of appropriate advisors, courses which sharpen the skills and sensitivities previously listed. Since no one major is mandatory, the student should select one which emphasizes the areas mentioned above (administration, economics, English, history, philosophy, political science and sociology, to name a few). For additional information, the student should consult with the prelaw advisor and should be familiar with the Prelaw Handbook.

For additional information, a student should see the bulletins or catalogs of various law schools or the official Prelaw Handbook, current edition, prepared by the Law School Admission Test Council and the Association of American Law Schools. This handbook may be obtained at most college bookstores or ordered from Educational Testing Services, Princeton, N.J. 08540.

### McNair Scholars Program

Administration Building, Room 143  
(909) 537-7344 McNair@csusb.edu

The McNair Scholars Program is a federally funded grant through the U.S. Department of Education and named for astronaut and Challenger Space Shuttle crew member Ronald E. McNair. The program encourages students to pursue graduate studies by providing opportunities to define goals, engage in research, develop skills and build student/faculty mentor relationships critical to success at the doctoral level. The McNair Scholars Program provides selected students with a six-week summer research experience designed to increase skills and encourage enrollment in graduate school. As McNair Scholars, students are paired with faculty members at CSUSB whose research interests match their own.

Applicant requirements:

- Be a junior or senior at CSUSB;
- Be a citizen or permanent U.S. resident;
- Be a first-generation college student from a low-income family and/or belong to a group underrepresented in doctoral studies, including African Americans, Native Americans and Latinos.

## PROGRAM REQUIREMENTS FOR A BACHELOR'S DEGREE

To be eligible for the bachelor's degree, a student must:

1. Complete a minimum of 180 quarter units of college credit. Some majors require more than 180 quarter units to a maximum of 198.
2. Complete 82 quarter units in general education distributed in the manner outlined in the following section titled General Education Program Requirements. Satisfactory scores on the English Placement Test and the Entry Level Mathematics exam are prerequisites for enrollment in the following general education courses:
 

ENG 101.	Freshman Composition
MATH 110.	College Algebra
MATH 115.	The Ideas of Mathematics
MATH 120.	Pre-Calculus Mathematics
MATH 192.	Methods of Calculus
MATH 211.	Basic Concepts of Calculus
3. Complete all requirements for a major, including at least 20 quarter units of upper-division course work in the major.
4. Complete at least 45 quarter units at this university. (Refer to University Residence Requirement for Graduation, Page 66.)
5. Complete at least 60 quarter units of upper-division work.
6. Earn a grade point average of 2.0 ("C") or better in all units used to fulfill the requirements of the major.
7. Earn a grade point average of 2.0 ("C") or better in all units attempted, and in all units attempted at the university.

8. Complete two quarter units of physical education course work as required in the general education program. Ten additional units of physical education activity courses (numbered KINE 150 and below) for a total of 12 units maximum may be applied toward graduation.
9. Complete the upper-division writing requirement. (See Page 69.)
10. Complete the history, constitution and California government requirement. (See History, Constitution, Government Requirement, Page 69.)
11. Be recommended for graduation by the faculty of the university.
12. Have a graduation requirement check (grad check) on file prior to the end of the term of graduation.

## Systemwide Placement Test Requirements

The CSU requires each entering undergraduate, except those who qualify for an exemption, take the CSU Entry Level Mathematics (ELM) examination and the CSU English Placement Test (EPT) prior to enrollment. These placement tests are not a condition for admission to the CSU, but they are a condition of enrollment. These examinations are designed to identify entering students who may need additional support in acquiring college entry-level English and mathematics skills necessary to succeed in CSU baccalaureate-level courses. Undergraduate students who do not demonstrate college-level skills both in English and in mathematics will be placed in appropriate remedial programs and activities during the first term of their enrollment. Students placed in remedial programs in either English or mathematics must complete all remediation in their first year of enrollment. Failure to complete remediation by the end of the first year may result in denial of enrollment for future terms. Students register for the EPT and/or ELM at their local CSU campus. Questions about test dates and registration materials may be addressed to the Testing Office, JB-405, (909) 537-5041.

If all required remedial work is not completed within one year, students **MUST** see an advisor in Advising and Academic Services prior to attending a community college to complete that work and the General Education courses in mathematics and English.

**English Placement Test (EPT).** The EPT is designed to assess the level of reading and writing skills of entering undergraduate students so that they can be placed in appropriate baccalaureate-level courses. The CSU EPT must be completed by all entering undergraduates with the exception of those who present proof of one of the following:

- A score of "Exempt" on the augmented English CST; i.e. the CSU Early Assessment Program (EAP), taken in grade 11 as part of the California Standards Test.
- A score of 550 or above on the verbal section of the College Board SAT Reasoning Test taken April 1995 or later.
- A score of 24 or above on the enhanced ACT English Test taken October 1989 or later.
- A score of 680 or above on the re-centered and adjusted College Board SAT II: Writing Test taken May 1998 or later.
- A score of 3, 4 or 5 on either the Language and Composition or the Composition and Literature examination of the College Board Advanced Placement program.
- A score of 4, 5, 6, or 7 on the English A1- High Level International Baccalaureate Exam.
- Completion and transfer of a course that satisfies the General Education-Breadth or the Intersegmental General Education Transfer Curriculum (IGETC) written communication requirement, provided this course was completed with a grade of "C" (2.0) or better.

The score obtained on the EPT will determine the appropriate level English composition course for each student. Pre-baccalaureate course work may be required in preparation for the freshman composition course.

EPT scores and required course placement:

- EPT total score of 151 or greater, students must enroll in ENG 101.
- EPT total score in range from 142 to 150 (regardless of EPT essay score), students must enroll in ENG 95.
- EPT total score in range from 0 to 141 (regardless of EPT essay score or units earned), students must enroll in ENG 85A. Students not exempt from the EPT must have a total score of 151 or greater on EPT, or complete ENG 95 at CSUSB with a grade of "C" or better, or complete ENG 85 with a "CR" before enrolling in Freshman Composition (ENG 101).

**Entry Level Mathematics (ELM) Exam.** The ELM examination is designed to assess the skill levels of entering CSU students in the areas of mathematics typically covered in three years of rigorous college preparatory courses in high school (Algebra I, Algebra II, and Geometry). The CSU ELM must be completed by all entering undergraduates, with the exception of those who present proof of one of the following:

- A score of "Exempt" on the augmented mathematics California Standards Test; i.e. the CSU Early Assessment Program (EAP), taken in grade 11.
- A score of "conditionally exempt" on the augmented mathematics CST; i.e. the CSU Early Assessment Program (EAP), plus successful completion of a Senior-Year Mathematics Experience (SYME).
- A score of 550 or above on the mathematics section of the College Board SAT or on the College Board SAT Subject Tests-Mathematics Tests Level I, IC (Calculator), II or IIC (Calculator).
- A score of 23 or above on the ACT Mathematics Test.
- A score of 3 or above on the College Board Advanced Placement Calculus examination (AB or BC) or statistics examination.
- Completion and transfer of a course that satisfies the General Education-Breadth or Intersegmental General Educational Transfer Curriculum (IGETC) quantitative reasoning requirement, provided the course was completed with a grade of "C" or better.

## Student ELM Scores

The score obtained on the ELM will determine the appropriate level math course for each student. Pre-baccalaureate course work may be required in preparation for the general education math course.

Note the old scores for ELM tests administered before March 23, 2002 are in parenthesis ( ). ELM scores and required course placement:

- ELM score of **(550 or greater) 50 or greater** students may enroll in **MATH 110, 115, 120, 192, 211**.
- ELM score of **(480 to 540) 41 to 49**, students must enroll in **MATH 90**.
- ELM score of **(350 to 470) 30 to 40**, students must enroll in **MATH 80**.
- ELM score of **(330 to 340) 25 to 29**, students have two options available:
  1. Enroll in **MATH 80 PLUS MATH 79** math lab adjunct;
  2. Enroll in **MATH 75B**.
- ELM score **(280 to 320) 19 to 29**, students must enroll in **MATH 75B**.
- ELM score **(below 270) 18 and below**, students must enroll in **MATH 75A**.

ALL PREREQUISITE MATH COURSES (MATH 75A, 75B, 79, 80, 90) **MUST BE COMPLETED WITHIN ONE YEAR**. The year begins July 1 and ends June 30. If this requirement is not fulfilled within the one-year period, the student **MUST** attend a community college to complete the prerequisite coursework and the General Education Math course. Contact Advising and Academic Services at (909) 537-5034 for more information. CSUSB strongly encourages students who need pre-baccalaureate level coursework to begin that work in the summer prior to the start of the regular academic school year.



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Students not exempt from the ELM must score 550 or greater on the old ELM or a score of 50 or greater on the ELM if taken after March 16, 2002, or complete MATH 90 at CSUSB with a grade of "C" or better before enrolling in any General Education mathematics course.

The EPT and ELM must be taken at the first opportunity after admission or as soon as possible thereafter and before registering for classes.

New students who plan to start taking courses at the university in the Fall term and who do not pass these tests are strongly encouraged to begin their prerequisite math and/or English course work during the summer prior to enrollment to ensure that they will complete that remedial work before the mandatory completion deadline.

Information bulletins and registration materials for the EPT and ELM will be mailed to all students subject to the requirements. The materials may also be obtained from the Office of Admissions and Student Recruitment or the campus Test Office.

Assistance in understanding EPT and ELM test scores and requirements is available at Advising and Academic Services (University Hall, Room 380, (909) 537-5035). Students who do not pass the EPT and/or ELM will be required to take appropriate prerequisite course(s) at CSUSB. Transfer courses are not accepted to meet these prerequisite requirements.

### University Residence Requirement for Graduation

A minimum of 45 quarter units must be completed at this university. At least 36 of these units must be upper-division, 18 in the major and 12 in general education. Extension credit, credit by examination or credit by evaluation may not be used to fulfill the minimum residence requirement.

### Second Bachelor's Degree Requirements

A student who holds a bachelor's degree from California State University, San Bernardino or another accredited institution and who applies for a second degree must have satisfactorily completed each of the following in order to receive a second bachelor's degree in a different major:

1. General education requirements as stated in the appropriate catalog;
2. Upper-division writing requirement completed with a grade of "B" (3.0) or better;
3. Requirements of the major involved;
4. In addition to whatever work was presented for the first bachelor's degree, a minimum of 45 quarter units of residence work of which
  - a. 18 units must be in the second major,
  - b. 12 units must be in general education,
  - c. 36 units must be at the upper-division level;
5. Maintain a 2.5 grade point average in all work attempted;
6. Approval of the faculty of the university.

It is not necessary to complete a second bachelor's degree in order to graduate with a dual major. Contact the Office of Records, Registration and Evaluations. Students seeking a second bachelor's degree will be subject to the registration policies in effect for unclassified postbaccalaureates. See Page 42 for further information about fees for a second major.

### Multiple Majors/Concentration

A student will normally meet graduation requirements for a degree in one of the major curricula. A student may be granted a bachelor's degree with two or more major/concentrations if the complete requirements of all curricula are satisfied at the same time. Students graduating with one or more degrees will be issued separate diplomas. The fact that the requirements of multiple concentrations

with the same degree have been completed will be noted on the transcript. Graduation check/diploma fees will be required for each separate degree.

## GENERAL EDUCATION PROGRAM

### Requirements (78-82 units)

The general education requirements at California State University, San Bernardino are designed to assure that all graduates of the university, whatever their major, have acquired certain essential skills and a broad range of knowledge appropriate to educated persons in our society.

Lower-division courses are intended to foster an ability to think clearly and logically, to find and critically examine information, and to communicate, at an appropriate level, orally and in writing; to acquaint students with the physical universe and its life forms and to impart an understanding of scientific methodology and of mathematical concepts and quantitative reasoning; to cultivate-through the study of philosophy, literature, languages, and the arts-intellect, imagination, sensibility and sensitivity; and to deal with human social, political and economic institutions and their historical background, with human behavior and the principles of social interaction. Upper-division courses include a further requirement in writing as well as integrative capstone courses designed to provide students with an understanding of the interrelationships among disciplines and their applications to contemporary environments. Multicultural and gender issues are given special attention in these courses.

The purpose of the general education program is not, primarily, to provide students with a number of possible avenues for specialization. Rather it is intended to ensure that all students will have a firm grasp of the basic skills of critical thinking, numerical literacy, and oral and written communication; understand the issues on which they will have to make decisions; and know something about themselves and the world in which they live.

The general education program requires a minimum of 78 quarter units. An additional four units may be required to satisfy the Upper-division Writing Requirement.

No substitutions in the general education program are possible without prior approval of a petition submitted to the Office of Advising and Academic Services, UH-380.

Some majors require specific GE courses. Students should consult the catalog for their major's requirements or contact the department.

**Note:** Courses in Category A should be completed before a student reaches upper-division standing. For upper-division transfer students, this category should be completed within the first 32 units taken at California State University, San Bernardino.

### Requirements for General Education Program:

#### A. Basic Skills Category (12 units)

1. Written Communication  
Must be completed with a grade of "C" (2.0) or better  
Four units chosen from:  
ENG 101. Freshman Composition (4)
2. Oral Communication  
Four units chosen from:  
COMM 120. Oral Communication (4)  
HON 104C.\* Language and Meaning: Oral Communication (4)\*
3. Mathematics  
One course listed in the mathematics section of the natural sciences breadth area (category B1).

\*Open only to students accepted into the University Honors Program.



4. Critical Thinking  
Four units chosen from:  
COMM 180. Critical Thinking Through Argumentation (4)  
HON 104A.\* Language and Meaning: Critical Thinking (4)\*  
MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)  
PHIL 105. Critical Thinking Through Argument Analysis (4)  
PHIL 200. Critical Thinking Through Symbolic Logic (4)  
PSYC 105. Critical Thinking Through Problems Analysis (4)  
SOC 180. Critical Thinking About Social Problems (4)
- B. Natural Sciences Breadth Area (20 units)**
  1. Mathematics  
MATH 110, 115, and 120 must be completed with a grade of "C" (2.0) or better  
Four units chosen from:  
MATH 110. College Algebra (4)  
MATH 115. The Ideas of Mathematics (4)  
MATH 120. Pre-Calculus Mathematics (4)  
MATH 192. Methods of Calculus (4)  
MATH 211. Basic Concepts of Calculus (4)
  2. Life Sciences  
Five units chosen from:  
BIOL 100. Topics in Biology (5)  
BIOL 202. Biology of Populations (5)  
HSCI 120. Health and Society: An Ecological Approach (5)
  3. Physical Sciences  
A minimum of five units chosen from:  
ASTR 103. Descriptive Astronomy (5)  
CHEM 100. Chemistry in the Modern World (5)  
CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)  
CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)  
GEOG 103. Physical Geography (5)  
GEOL 101. Introductory Geology (5)  
PHYS 100. Physics in the Modern World (5)  
PHYS 121. Basic Concepts of Physics I (5)  
PHYS 221. General Physics I (5)
  4. Special Topics in Science and Technology  
Two units chosen from:  
BIOL 216. Genetics and Society (2)  
BIOL 217. Biology of Sexually Transmitted Diseases (2)  
CHEM 105. Chemicals in Our Environment (2)  
CSCI 122. Bioinformatics (2)  
CSCI 129. Science, Computing and Society (2)  
GEOL 205. Volcanic Hazards, Surveillance and Prediction (2)  
GEOL 210. Earthquakes: Science and Public Policy (2)
  5. Integrative Capstone in the Natural Sciences  
Four units chosen from:  
NSCI 300. Science and Technology (4)  
NSCI 310. The Environment and Human Survival (4)  
NSCI 314. Life in the Cosmos (4)  
NSCI 315. Natural Disasters (4)  
NSCI 320. Energy (4)  
NSCI 325. Perspectives on Gender (also counts in category G1) (4)  
NSCI 351. Health and Human Ecology (4)  
NSCI 360. Legacy of Life (4)

**Note:** Students may receive credit for only one of the following courses:

- |           |                        |
|-----------|------------------------|
| HUM 325.  | Perspectives on Gender |
| NSCI 325. | Perspectives on Gender |
| SSCI 325. | Perspectives on Gender |

**C. Humanities Breadth Area (20 units)**

1. Arts  
Four units chosen from:  
ART 200. Studies in Art (4)  
HUM 180. The Art of Film (4)  
MUS 180. Studies in Music (4)  
TA 260. Introduction to Theatre (4)
2. Literature  
Four units chosen from:  
ENG 110. World Literature I (4)  
ENG 111. World Literature II (4)  
ENG 160. World Drama (4)  
ENG 170. Studies in Literature (4)  
TA 160. World Drama (4)  
TA 212. Oral Interpretation of Literature (4)
3. Foreign Language or Literature in Translation  
Four units chosen from:  
ARAB 102. College Arabic II (4)  
ARAB 150. College Arabic III (4)  
ARAB 214. Conversation in Arabic (4)  
ARAB 290. Arabic Literature in Translation (4)  
ASL 102. American Sign Language II (4)  
ASL 150. American Sign Language III (4)  
FLAN 102. Language Study II (4)  
FLAN 150. Intermediate Language Study (4)  
FREN 102. College French II (4)  
FREN 150. Intermediate French (4)  
FREN 200. Culture and Communication (4)  
FREN 201. Culture and Communication II (4)  
FREN 202. Culture and Communication III (4)  
FREN 290. French Literature in English (4)  
GER 102. College German II (4)  
GER 150. Intermediate German (4)  
GER 212. Composition (4)  
GER 214. Conversation (4)  
GER 216. Introduction to Literary Texts (4)  
GER 290. German Literature in English (4)  
JAPN 102. College Japanese II (4)  
JAPN 150. Intermediate Japanese (4)  
JAPN 290. Japanese Literature in Translation (4)  
MAND 102. College Mandarin II (4)  
MAND 150. Intermediate Mandarin (4)  
MAND 290. Mandarin Literature in Translation (4)  
SPAN 102. College Spanish II (4)  
SPAN 150. Intermediate Spanish (4)  
SPAN 155. Intermediate Spanish for Heritage/Native Speakers (4)  
SPAN 212. Composition (4)  
SPAN 213. Composition for Heritage/Native Speakers (4)  
SPAN 214. Conversation (4)  
SPAN 290. Spanish and Latin American Literature in English (4)

**Note:** Credit toward the foreign language or literature in translation category (see below for eligibility) will only be awarded for:

- |           |                           |
|-----------|---------------------------|
| ARAB 102. | College Arabic II         |
| ASL 102.  | American Sign Language II |
| FLAN 102. | Language Study II         |
| FREN 102. | College French II         |
| GER 102.  | College German II         |
| JAPN 102. | College Japanese II       |

\*Open only to students accepted into the University Honors Program.

## 68 / General Education Program

MAND 102. College Mandarin II  
SPAN 102. College Spanish II

To be eligible for general education credit for a foreign language 102 course, a student must have had either less than two years of high school study of the language selected in category C3 or no such study of that language for at least five years prior to admission to the university.

The following rules apply to challenging a course for credit toward this category:

- Only courses at the 150-level or higher may be challenged;
- Students wishing to challenge a language not offered at this university must be tested at the University of California, Los Angeles Testing Center, where they must achieve a level of Intermediate (ACTFL Stage 2) or above. The student must pay all necessary fees and make all necessary arrangements for the taking of the test and for the official reporting of the results to the Department of World Languages and Literatures;
- Students whose language of instruction in secondary school was not English may satisfy this category by submitting official academic transcripts that show completion of secondary school in a country in which the language with which they wish to meet the foreign language requirement was the medium of instruction;
- Students who satisfy the Foreign Language/Literature in Translation requirement through b or c above will not receive academic credit and must take four additional units from the Humanities Breadth Area (Category C) to meet the total number of General Education units required for graduation.

## 4. Philosophy

Four units chosen from:

- HON 104B.\* Language and Meaning: Introduction to Philosophy (4)  
PHIL 190. Introduction to Philosophical Issues (4)  
PHIL 191. Introduction to Ethics (4)  
PHIL 192. Introduction to Philosophy of Religion (4)  
PHIL 193. Introduction to Eastern Philosophy (4)  
PHIL 194. Introduction to Knowledge and Reality (4)

## 5. Integrative Capstone in the Humanities

Four units chosen from:

- HUM 319. Myth, Metaphor and Symbol (4)  
HUM 325. Perspectives on Gender (also counts in category G1) (4)  
HUM 328. Asian Cultural Traditions (also counts in category G1) (4)  
HUM 330. Arts and Ideas (4)  
HUM 335. The Origin and Contemporary Role of Latino Culture (also counts in category G1) (4)  
HUM 340. Interpretation and Values (4)  
HUM 344. Ideas in American Culture (4)  
HUM 350. The Cultures of American Childhood (also counts in category G1) (4)  
HUM 370. African Heritage in the Arts (also counts in category G1) (4)  
HUM 375. The World of Islam (also counts in category G1) (4)  
HUM 380. Comparative Studies in the Arts: East and West (also counts in category G1) (4)  
HUM 385. A Cultural History of Fashion (4)

**Note:** Students may receive credit for only one of the following courses:

- HUM 325. Perspectives on Gender  
NSCI 325. Perspectives on Gender  
SSCI 325. Perspectives on Gender

## D. Social and Behavioral Sciences Breadth Area (20 units)

## 1. American History and Civilization

Four units chosen from:

- HIST 146. American Civilization (4)  
HIST 200. United States History to 1877 (4)  
HIST 201. United States History, 1877 to the Present (4)

## 2. American Institutions

PSCI 203. American Government (4)

**Note:** The American history, constitution, state and California local government requirement may be met by taking:

- PSCI 203. American Government  
and one of the following:  
HIST 146. American Civilization  
HIST 200. United States History to 1877  
HIST 201. United States History, 1877 to the Present

If this requirement is met by examination, then students still must take 16 units of lower-division units in this breadth area.

## 3. World Cultures

Four units chosen from:

- ANTH 140. World Civilizations I, the Rise of Civilization (4)  
HIST 140. World Civilizations I, the Rise of Civilization (4)  
HIST 142. World Civilizations II, the Civilizations of the East and West (4)  
HIST 144. World Civilizations III, the Expansion of Europe (4)  
SSCI 165. Regions and Peoples of the World (4)

## 4. Discipline Perspectives

Four units chosen from:

- ANTH 100. Introduction to Anthropology: Human Evolution (4)  
ANTH 102. Introduction to Anthropology: Culture and Society (4)  
ECON 104. Economics of Social Issues (4)  
ES 100. Ethnicity and Race in America (4)  
GEOG 100. Introduction to Human Geography (4)  
PSYC 100. Introduction to Psychology (4)  
SOC 100. The Study of Society (4)  
WSTD 100. Introduction to Women's Studies (4)

## 5. Integrative Capstone in the Social and Behavioral Sciences

Four units chosen from:

- SSCI 300. Nonwestern World (4)  
SSCI 304. Contemporary Latin America (4)  
SSCI 315. Cultural Adaptation: The Quest for Survival (4)  
SSCI 316. Race and Racism (also counts in category G1) (4)  
SSCI 320. Understanding Capitalism (4)  
SSCI 321. Urbanization and the Urban Environment (4)  
SSCI 325. Perspectives on Gender (also counts in category G1) (4)  
SSCI 345. Religious Expression in America (4)  
SSCI 350. Roots of Modern Racism in America (also counts in category G1) (4)

**Note:** Students may receive credit for only one of the following courses:

- HUM 325. Perspectives on Gender  
NSCI 325. Perspectives on Gender  
SSCI 325. Perspectives on Gender

## E. Lifelong Understanding Category (6 units)

## 1. The Whole Person - Physical and Physiological Issues

KINE 205. Foundations for Lifetime Fitness and Wellness (2)

## 2. The Whole Person - Social and Psychological Issues

Two units chosen from:

- FIN 101. Financial Choices in Life (2)  
PHIL 101. Moral Choices in Life (2)

\*Open only to students accepted into the University Honors Program.

- PSYC 115. Personal and Social Adjustment (2)  
SOC 110. Choices in the Life Course (2)
3. Physical Education  
Two units chosen from:
- KINE 101. Individual and Dual Activities (2)  
KINE 114. Physical Fitness and Conditioning Activities (2)  
KINE 120. Combative and Martial Arts Activities (2)  
KINE 121. Team Activities (2)  
KINE 137. Aquatic Activities (2)  
KINE 147. A Fitness Odyssey (2)  
KINE 149. Independent Activity Project (2)  
KINE 150. Dance Activities (2)

**Note:** All students are required to complete two units of physical education in this category. Ten additional units of physical education activity courses (numbered 150 and below) for a total of 12 units maximum may be applied toward graduation.

#### F. Upper-division Writing Requirement (0-4 units)

This requirement can be met by completing one of the following two options:

1. Successfully completing one of the following upper-division expository writing courses with a grade of "C" (2.0) or better (4 units):  
EDUC 306. Expository Writing for Education (4)  
ENG 306. Expository Writing (4)  
HON 306.\* Expository Writing (4)  
HUM 306. Expository Writing for the Humanities (4)  
MGMT 306. Expository Writing for Administration (4)  
NSCI 306. Expository Writing for the Natural Sciences (4)  
SSCI 306. Expository Writing for the Social Sciences (4)

2. Passing the Writing Requirement Exemption Exam (WREE). (0 units)

No unit credit is awarded for passing the examination. It may be necessary to take additional units to meet minimum residency and graduation unit requirements.

#### G. Multicultural/Gender Requirement Category

All students must take one upper-division course designated as meeting this requirement. The multicultural/gender requirement can be met by completing one of the following two options:

1. Integrative capstone course in one of the three breadth areas (categories B5, C5 or D5)

- HUM 325. Perspectives on Gender (4)  
HUM 328. Asian Cultural Traditions (4)  
HUM 335. The Origin and Contemporary Role of Latino Culture (4)  
  
HUM 350. The Cultures of American Childhood (4)  
HUM 370. African Heritage in the Arts (4)  
HUM 375. The World of Islam (4)  
HUM 380. Comparative Studies in the Arts: East and West (4)

- NSCI 325. Perspectives on Gender (4)  
SSCI 316. Race and Racism (4)  
SSCI 325. Perspectives on Gender (4)  
SSCI 350. Roots of Modern Racism in America (4)

2. One upper-division course from the following:

- ANTH 325. Human Biological Variation and the Concept of Race (4)  
ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)  
COMM 304. Intercultural Communication (4)  
COMM 401. Gender, Race and Media (4)  
CJUS 451. Women and Crime (4)  
ECON 352. Political Economy of Poverty and Discrimination (4)

- ENG 314. American Indian Literature (4)  
HUM 460. Cultural Studies (4)  
MUS 308. Women in Music (4)  
MUS 309. Jazz History in America and African-American Culture (4)  
  
MUS 350. Music of World Cultures (4)  
PA 305. Organizations in Multicultural and Diverse Societies (4)  
  
PHIL 364. Philosophy of Race and Ethnicity (4)  
PHIL 367. Gender and Philosophy (4)  
TA 462. African-American Theatre and Drama (4)  
TA 463. Asian Theatre (4)

### Upper-Division Writing Requirement

All undergraduate students subject to degree requirements of the 1980-81 or subsequent University Bulletins must complete an upper-division writing competency requirement as a condition of graduation through either of two means:

1. Completion with a grade of "C" (2.0) or better of one of the following courses: EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306 or HON 306 (for students in the Honors Program). Prerequisites for 306 courses are: ENG 101 and a minimum of 90 quarter (60 semester) units of college credits. (Note: these 306 courses were previously numbered 495.)
2. Satisfactory completion of the Writing Requirement Exemption Examination. No credit is awarded for passing the examination. It may be necessary to take additional units to meet minimum residency and graduation unit requirements.

Students normally shall complete the upper-division writing requirement by the end of the junior year. Further information about the examination (for example, how much it costs, when it is offered, what it covers) is available from the Testing Office, Jack Brown Hall, Room 405, (909) 537-5045. Contact the Office of the Dean of Undergraduate Studies, University Hall, Room 368, (909) 537-5032 for questions about the upper-division writing requirement itself.

### History, Constitution, Government Requirement

Each student must demonstrate competence in understanding the Constitution of the United States; American history, institutions and ideals; and the principles of state and local government as established in California.

The requirement in the U.S. Constitution may be met by completing one of the following: HIST 146, 200 and 201, or 540, PSCI 203, 410 or 411.

The requirement in U.S. history may be met by completing one of the following: HIST 146, 200, 201, 540, or PSCI 314.

The requirement in state and local government as established in California may be met by completing one of the following: HIST 270 or 370 or PSCI 203, 330 or 332.

**Note:** General Education credit is granted for HIST 146, 200, 201 and PSCI 203 only.

A student can meet the entire U.S. Constitution, U.S. history, and California state and local government requirement, while fulfilling general education requirements, by taking PSCI 203 and one of the following: HIST 146, or 200 or 201. The opportunity to meet the requirements by passing an optional examination, which may be repeated once (not in the same quarter), is given to students. However, if this requirement is met by examination, students must still complete 16 lower-division units in the Social and Behavioral Sciences breadth area (category D). Information may be obtained from either the Office of Records, Registration and Evaluations or the College of Social and Behavioral Sciences Office. The examinations are administered through the Testing Office.

\*Open only to students accepted into the University Honors Program.

# ACCOUNTING

## Department of Accounting and Finance

Jack Brown Hall, Room 459  
(909) 537-5704 <http://www.acf.csusb.edu/>

**FACULTY:** Frank Bensen (Emeritus), Otto Chang, Janet Courts, John Dorocak, Ron Escobar, Linvol Henry (Emeritus), Sung-Kyoo Huh, Richard Lillie, Richard Savich, John Scribner (Emeritus), Hossein Shalchi (Emeritus)

The university offers concentrations in accounting within the Bachelor of Science in Administration and the Master of Business Administration. A Certificate in Accounting is also available. The details of these programs are listed under Administration on Page 72. The Master of Business Administration can be found on Page 365. The courses listed below are offered in support of these programs. Further information is available from the Department of Accounting and Finance.

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### COURSE OFFERINGS IN ACCOUNTING (ACCT)

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#### Lower Division

##### 211. Introductory Accounting I

Fundamentals of recording, analyzing, and communicating financial information including income determination, assets and liability relationships and preparation of financial statements. (4 units)

##### 212. Introductory Accounting II

Continuation of Introductory Accounting I with emphasis on interpretation and uses of financial data for decision-making including cost analysis, budgeting, and control. Includes study of the statement of cash flows and long-term debt. Prerequisites: ACCT 211, INFO 102 and 103. (4 units)

#### Upper Division

**Enrollment in upper division courses restricted to students who have met all prerequisites and have completed at least 90 quarter units (junior class level). Students who do not meet these requirements will be disenrolled.**

##### 315. Accounting Information Systems

Introduction to the concepts, objectives and importance of properly designed accounting information systems. Extensive study of internal controls including systems documentation. Three hours lecture and two hours activity laboratory. Prerequisites: ACCT 212, INFO 102, 103 and 309. (4 units)

##### 347. Management Accounting and Decision Making

Overview of techniques to facilitate business decision-making. Models include break-even analysis, differential costing, product cost pricing analyses, capital budgeting and investment analysis techniques. The role of budgeting in management planning and control and an examination of cost and revenue variances. Transfer pricing, management compensation and performance evaluation are reviewed in both domestic and international situations. Formerly ACCT 345. Prerequisite: ACCT 212. (4 units)

##### 372. Intermediate Accounting

First of a three-course sequence covering an in-depth study of financial accounting. Coverage includes the conceptual framework underlying financial accounting, the application of Generally Accepted Accounting Principles (GAAP) applicable to the preparation of financial statements, accounting for cash, receivables and inventories. The accounting cycle and time value of money will also be reviewed. Prerequisite: ACCT 212, with a grade of "C" or better. (4 units)

##### 373. Problem Areas in Intermediate Accounting

Continuation of ACCT 372 with emphasis on the study of long-term assets, equities and earnings per share. Prerequisite: ACCT 372 with a grade of "C" or better. (4 units)

##### 426. Introduction to Taxation

Introduction to the basic concepts of federal income taxation. Includes history and objectives of the tax, along with the treatment of various types of entities, types of income, types of deductions and types of credits. Emphasis is on the individual as a taxpayer. Prerequisites: ACCT 211 and junior standing. (4 units)

##### 440. Financial Statement Auditing

Theory and function of the auditor, viewed from the perspective of public accounting. Topics will include standard audit reports, assessing audit risk, auditor's legal liabilities, tests of controls, and audit evidence. Three hours lecture and two hours activity laboratory. Prerequisites: ACCT 315 and 373. (4 units)

##### 441. Advanced Auditing

Continuation of ACCT 440 with emphasis on audit sampling, test design, impact of electronic data processing (EDP) upon audit planning, and assurance and attestation services other than audit services. Three hours lecture and two hours activity laboratory. Prerequisite: ACCT 440. (4 units)

##### 442. Internal and Operational Auditing

Theory and practice of internal auditing as an operational appraisal activity within firms. Distinction between internal auditing and external, independent auditing. Use of tools to assist management control structures and operations. Focus on evaluating effectiveness, efficiency and compliance of firm activities. Prerequisite: ACCT 373. (4 units)

##### 444. Accounting Law, Ethics and Institutions

Advanced accounting law topics, ethical standards, and institutions for professional accountants. Emphasis on legal problems encountered in the public accounting profession, including an examination of the ethical standards and the political and regulatory institutions that affect the practice of public accounting. Prerequisite: MGMT 330. (4 units)

##### 447. Cost Accounting

Product and service costing with attention to analysis of overhead and multiple allocation techniques. Topics include joint costs, byproducts, spoilage, rework and scrap. Alternative costing systems including operations costing and process costing. Valuation of inventory for decision-making purposes. Procedures for just-in-time inventory management are included. Prerequisite: ACCT 347. (4 units)



**503. Financial Accounting**

Intensive introduction to applied topics and techniques in financial accounting. Development of accounting information according to U.S. GAAP for external reporting purposes. Economic and financial analysis of financial statements. No credit will be awarded to students who have taken ACCT 211 and 212. May not be counted toward fulfilling requirements for any degree program offered by the College of Business and Public Administration. (4 units)

**536. Corporate and Partnership Taxation**

The basic concepts of the federal income taxation of corporations and partnerships. Formerly ACCT 436. Prerequisite: ACCT 426 with a grade of "C" or better, or consent of instructor. (4 units)

**539. Advanced Accounting**

Advanced topics in accounting including business combinations, multinational operations and foreign currency transactions, liquidations, and reorganizations. Includes partnership formation, income distribution and liquidation. Formerly ACCT 439. Prerequisite: ACCT 373. (4 units)

**556. Estates and Gifts and other Specialized Taxation Topics**

Taxation topics not covered in depth in ACCT 426 and 536, including gift and estate tax, income taxation of trusts and estates, tax administration and practice, working with tax law, advanced individual income tax topics, and other special topics. Formerly ACCT 456. Prerequisite: ACCT 426 with a grade of "C" or better, or consent of instructor. (4 units)

**568. Accounting for Government and Not-for-Profit Organizations**

Covers principles and practices of government fund accounting. Topics include governmental accounting concepts, types and structure of funds and accounts, application of generally accepted accounting principles to government and not-for-profit entities, presentation and uses of financial statements. (Also offered as PA 568. Students may not receive credit for both.) Prerequisite: ACCT 211. (4 units)

**574. Reporting Issues in Intermediate Accounting**

Study of revenue recognition, deferred taxes, pensions and leases. Formerly ACCT 374. Prerequisite: ACCT 372 with a grade of "C" or better. (4 units)

**575. Internship in Accounting**

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

**590. Seminar in Accounting**

An intensive study of some phase of accounting to be developed by the instructor. May be repeated for credit as topics change. (4 units)

**595. Independent Study**

Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of project instructor and approval by the department of a written proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (2 or 4 units)

# ADMINISTRATION

Accredited by AACSB International, the Association to Advance Collegiate Schools of Business

## College of Business and Public Administration

Jack Brown Hall, Room 278  
(909) 537-5700 <http://www.cbpa.csusb.edu/>

### Bachelor of Arts

Administration  
with concentrations in:  
Business Economics  
Entrepreneurial Management  
Finance  
Information Management  
Management  
Marketing  
Public Administration  
Real Estate  
Supply Chain Management  
Transportation and Logistics

### Bachelor of Science

Administration  
with concentrations in:  
Accounting  
Accounting Information Systems  
Finance  
Financial Planning  
Information Assurance and Security Management  
Information Management  
International Business  
Marketing  
Real Estate

### Minor

Accounting  
Business Administration  
Business Information Mapping  
Entrepreneurship  
Finance  
Human Resources Management  
Information Management  
Management  
Marketing  
Public Administration  
Real Estate  
Sports Management  
Supply Chain Management

### Master of Business Administration

(Degree requirements can be found on Page 365.)

### Master of Public Administration

(Degree requirements can be found on Page 490.)

### Certificate Programs

Accounting  
Human Resources  
Information Systems Management  
Sports Management  
Supply Chain Management

The College of Business and Public Administration offers a major in administration designed to prepare students for careers in business, government service, institutions and related fields.

Within the mission of the university, the College of Business and Public Administration has three central objectives: 1) provide high quality business and public administration programs which will prepare our students for successful careers in business and government; 2) participate in scholarly activities which will assist in keeping our students, faculty, and our constituent businesses and governments abreast of current developments in their respective disciplines; and 3) provide professional service to our university, community and professional organizations. The curriculum, with its core requirements and areas of specialization, provides the student with a broad-based behavioral and quantitative understanding of the concepts of management. The managerial function and decision-making processes are studied with coverage in methods of analysis of quantitative information; judgment and appraisal of social, economic and human relations issues; and effective communication.

Areas of commonality among various public and private systems of institutional management constitute the core material of the administration major, while variations which distinguish management practices in different functional areas are subjects for optional specialization.

Students are encouraged to check that they have met the prerequisite requirements for each course in the College of Business and Public Administration in which they are planning to enroll. Prerequisite requirements listed for each course are strictly enforced.

Enrollment in 300-, 400- and 500-level courses in the College of Business and Public Administration is restricted to students who have completed at least 90 quarter units (i.e., at least junior class level) and all lower-division courses listed below. Course prerequisites are strictly enforced.

Students who do not meet the stated requirements may be disenrolled from the course(s).

In addition to the grade point average requirements stated on Page 64, an administration major student must earn a grade point average of 2.0 ("C") or better in all units used to fulfill the requirements of the concentration.

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## B.A. IN ADMINISTRATION

### Requirements (92-94 units)

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#### Total units required for graduation: 180

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### Requirements for the B.A. in Administration:

Students must earn a grade of "C" (2.0) or better in all lower division, upper division and concentration courses required to fulfill a B.A. in Administration.

#### Lower-division requirements (32 units)

1. ACCT 211. Introductory Accounting I (4)
2. ACCT 212. Introductory Accounting II (4)
3. ECON 200. Principles of Microeconomics (4)
4. ECON 202. Principles of Macroeconomics (4)
5. INFO 102. Introduction to Information Technology (2)
6. INFO 103. Using Information Technology Applications (2)
7. MGMT 230. Business Law (4)
8. SCM 210. Applied Business Statistics (4)
9. Four units chosen from (also meets the General Education requirement category B1):
  - MATH 110. College Algebra (4)
  - MATH 120. Pre-Calculus Mathematics (4)
  - MATH 192. Methods of Calculus (4)
  - MATH 211. Basic Concepts of Calculus (4)

#### Upper-division core requirements (36 units)

1. FIN 313. Business Finance (4)
2. FIN 314. Corporate Financial Management (4)
3. INFO 309. Information Management (4)

4. Four units chosen from:
  - MGMT 302. Management and Organizational Behavior (4)
  - PSYC 302. Management and Organizational Behavior (4)
5. MGMT 330. Legal Environment of Business (4)
6. MGMT 490. Strategic Management (4)
7. MKTG 305. Marketing Principles (4)
8. PA 315. Government-Business Relations (4)
9. SCM 304. Principles of Supply Chain Management (4)

**Public Administration students should note:**

Students choosing the public administration concentration, substitute ECON 475 for FIN 313; PA 472 for FIN 314; PA 307 for MKTG 305 and PSCI 428 for MGMT 490.

Concentration (24 - 26 units)

Choose one concentration from the following:

**Note:** The concentration electives should be chosen from the electives listed for each concentration or, with the prior approval of the department chair, the student may substitute other courses for these electives. With prior approval, up to two of the concentration electives may be chosen from other academic disciplines. In planning their career goals, students should review course offerings of other departments to determine if specific courses fit their career plans.

**Business Economics Concentration (26 units)**

1. ECON 322. Managerial Economics (4)
2. ECON 335. Economic Analysis with Microcomputers (5)
3. ECON 372. Business Cycles (5)
4. Twelve units chosen from:
  - ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)
  - ECON 340. Advanced Economic Analysis with Microcomputers (4)
  - ECON 360. Economics of the Environment (4)
  - ECON 410. Money and Banking (4)
  - ECON 430. International Economics (4)
  - ECON 435. Multinational Corporations (4)
  - ECON 475. Public Finance (4)
  - ECON 490. Introduction to Econometrics (4)
  - ECON 575. Internship in Economics (4)
  - SCM 350. Applied Decision Analysis (4)
  - SCM 470. Supply Chain Management (4)

**Entrepreneurial Management Concentration (24 units)**

1. MGMT 442. Small Business Management (4)
2. MGMT 543. Entrepreneurial Opportunity Analysis (4)
3. MGMT 545. Entrepreneurial Resource Requirements (4)
4. MGMT 549. Launching the Entrepreneurial Venture (4)
5. Four units chosen from:
  - MGMT 515. Business Consulting (4)
  - MKTG 530. Strategic Entrepreneurship (4)
6. Four units chosen from:
  - ACCT 315. Accounting Information Systems (4)
  - ACCT 426. Introduction to Taxation (4)
  - ACCT 536. Corporate and Partnership Taxation (4)
  - MGMT 455. Human Resources Management (4)
  - MGMT 541. Commercializing Entrepreneurial Innovation (4)
  - MGMT 547. Managing a Growing Business (4)
  - MGMT 575. Internship in Management (4)
  - MKTG 460. Retailing (4)
  - MKTG 520. Integrated Marketing Communication (4)
7. MGMT 998. Baccalaureate Reflective Essay (0)

**Finance Concentration (24 units)**

1. FIN 430. Financial Theory and Practice (4)
2. FIN 432. Financial Institutions and Capital Formation (4)
3. FIN 433. International Business Finance (4)
4. FIN 435. Investment Analysis (4)
5. FIN 445. Financial Analysis and Decision-Making (4)
6. Four units chosen from:
  - ACCT 372. Intermediate Accounting (4)
  - ACCT 373. Problem Areas in Intermediate Accounting (4)
  - ACCT 426. Introduction to Taxation (4)
  - ACCT 536. Corporate and Partnership Taxation (4)
  - ECON 410. Money and Banking (4)
  - ECON 475. Public Finance (4)
  - FIN 360. Financial Planning Process and Insurance (4)
  - FIN 380. Principles of Real Estate (4)
  - FIN 534. Export-Import Financing (4)
  - FIN 575. Internship in Finance (4)
  - FIN 585. Real Estate Finance (4)
  - MGMT 442. Small Business Management (4)
  - SCM 350. Applied Decision Analysis (4)

**Information Management Concentration (24 units)**

1. Eight units of electives chosen from any 100- or 200-level INFO courses.
2. INFO 372. Information Technology (4)
3. INFO 378. Information Problem Solving and Risk Management (4)
4. INFO 490. Information Systems Planning and Policy (4)
5. Four units of electives chosen from any 300-, 400- and 500-level INFO courses.

**Management Concentration (24 units)**

1. MGMT 335. Business and Society (4)
2. MGMT 350. Administrative Communications (4)
3. MGMT 455. Human Resources Management (4)
4. Twelve units chosen from one of the speciality areas listed below:

**Management Speciality Area**

- MGMT 402. Studies in Organizational Behavior (4)
- MGMT 405. International Management (4)
- MGMT 406. International Business Law (4)
- MGMT 442. Small Business Management (4)
- MGMT 451. Organization and Management Theory (4)
- MGMT 457. Industrial and Labor Relations (4)
- MGMT 459. Work Group Management (4)
- MGMT 515. Business Consulting (4)
- MGMT 575. Internship in Management (4)
- MGMT 590. Seminar in Management (2 or 4) for a total of (4)

**Human Resources Speciality Area**

- MGMT 456. Developing an Effective Workforce (4)
- MGMT 457. Industrial and Labor Relations (4)
- MGMT 458. Fair Employment Practices (4)
- MGMT 459. Work Group Management (4)
- MGMT 575. Internship in Management (4)
- MGMT 590. Seminar in Management (2 or 4) for a total of (4)
- PA 462. Public Personnel Administration (4)
- 5. MGMT 998. Baccalaureate Reflective Essay (0)

**Marketing Concentration (24 units)**

1. MKTG 410. Consumer Behavior (4)
2. MKTG 416. Marketing Research (4)
3. MKTG 436. Marketing Decision-Making (4)
4. MKTG 496. Marketing Planning and Strategy (4)

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5. Four units chosen from:  
MKTG 420. Advertising (4)  
MKTG 430. Professional Selling and Sales Management (4)
6. Four units of 400- or 500-level MKTG courses chosen from:  
MKTG 415. Product Management (4)  
MKTG 420. Advertising (4) (if not taken in category 5)  
MKTG 430. Professional Selling and Sales Management (4) (if not taken in category 5)  
MKTG 438. Industrial Marketing (4)  
MKTG 446. Advertising Campaign (4)  
MKTG 460. Retailing (4)  
MKTG 462. Merchandising (4)  
MKTG 470. International Marketing Management (4)  
MKTG 520. Integrated Marketing Communication (4)  
MKTG 525. Sports and Entertainment Marketing (4)  
MKTG 530. Strategic Entrepreneurship (4)  
MKTG 540. E-Marketing (4)  
MKTG 560. Services Marketing (4)  
MKTG 565. Logistics (4)  
MKTG 572. Import-Export Management (4)  
MKTG 575. Internship in Marketing (4)  
MKTG 590. Seminar in Marketing (4)  
MKTG 595. Independent Study (4)

**Public Administration Concentration (24 units)**

1. PA 380. Introduction to Public Administration (4)
2. PA 462. Public Personnel Administration (4)
3. PA 463. Governmental Budgeting (4)
4. PA 490. Senior Assessment Seminar in Public Administration (4)
5. Eight units chosen from:  
PA 305. Organizations in Multicultural and Diverse Societies (4)  
PA 473. Public Transportation Planning, Policy and Regulation (4)  
PA 501. Administrative Leadership (4)  
PA 514. Management of Private Nonprofit Organizations (4)  
PA 516. Public and Non-Profit Project Management (4)  
PA 521. Principles of Planning (4)  
PA 540. Introduction to Tribal Management and Governance (4)  
PA 542. Tribal Government Gaming and Economic Development (4)  
PA 548A. Management of Computers in the Public Sector: Word Processing (4)  
PA 548B. Management of Computers in the Public Sector: Data Base Management (4)  
PA 548C. Management of Computers in the Public Sector: Spread Sheets (4)  
PA 548D. Management of Computers in the Public Sector: Communication (4)  
PA 548F. Management of Computers in the Public Sector: Special Problems (4)  
PA 557. Public Sector Labor Relations (4)  
PA 564. Local Public Administration (4)  
PA 568. Accounting for Government and Not-for-Profit Organizations (4)  
PA 575. Internship in Public Administration (4)  
PA 590. Seminar in Public Administration (4)  
PA 595. Independent Study (2-4) (with consent of department chair)

**Real Estate Concentration (24 units)**

1. FIN 380. Principles of Real Estate (4)
2. FIN 432. Financial Institutions and Capital Formation (4)
3. FIN 480. Real Estate Appraisal (4)

4. Four units chosen from:  
FIN 481. Real Estate Practice (4)  
FIN 485. Legal Aspects of Real Estate (4)
5. FIN 585. Real Estate Finance (4)
6. Four units chosen from:  
ACCT 347. Management Accounting and Decision Making (4)  
ACCT 372. Intermediate Accounting (4)  
ACCT 373. Problem Areas in Intermediate Accounting (4)  
ACCT 426. Introduction to Taxation (4)  
ACCT 536. Corporate and Partnership Taxation (4)  
ECON 410. Money and Banking (4)  
FIN 360. Financial Planning Process and Insurance (4)  
FIN 430. Financial Theory and Practice (4)  
FIN 433. International Business Finance (4)  
FIN 435. Investment Analysis (4)  
FIN 445. Financial Analysis and Decision-Making (4)  
FIN 481. Real Estate Practice (4) (if not taken previously)  
FIN 482. Real Estate Development (4)  
FIN 485. Legal Aspects of Real Estate (4) (if not taken previously)  
FIN 523. Security Trading and Analysis (4)  
FIN 575. Internship in Finance (4)  
MKTG 430. Professional Selling and Sales Management (4)

**Supply Chain Management Concentration (24 units)**

1. SCM 205. Enterprise Systems (4)
2. SCM 350. Applied Decision Analysis (4)
3. SCM 470. Supply Chain Management (4)
4. SCM 480. Quality Management (4)
5. SCM 490. Logistics Strategy (4)
6. Four units chosen from:  
INFO 280. Information Mapping and Data Visualization (4)  
INFO 477. Decision Support Systems (4)  
SCM 405. Advanced Enterprise Systems (4)  
SCM 575. Internship in Supply Chain Management (4)  
SCM 595. Independent Study (4)

**Transportation and Logistics Concentration (24 units)**

1. MGMT 307. Introduction to Transportation Management (4)
2. MGMT 450. Logistics Management and Regulation (4)
3. SCM 440. Transportation Systems Management (4)
4. SCM 470. Supply Chain Management (4)
5. SCM 490. Logistics Strategy (4)
6. Four units chosen from:  
INFO 280. Information Mapping and Data Visualization (4)  
SCM 205. Enterprise Systems (4)

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**B.S. IN ADMINISTRATION****Requirements (112 units)****Total units required for graduation: 198**

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**Requirements for the B.S. in Administration:**

Students must earn a grade of "C" (2.0) or better in all lower division, upper division and concentration courses required to fulfill a B.S. in Administration.

**Lower-division requirements (32 units)**

1. ACCT 211. Introductory Accounting I (4)
2. ACCT 212. Introductory Accounting II (4)
3. ECON 200. Principles of Microeconomics (4)
4. ECON 202. Principles of Macroeconomics (4)
5. INFO 102. Introduction to Information Technology (2)
6. INFO 103. Using Information Technology Applications (2)
7. MGMT 230. Business Law (4)
8. SCM 210. Applied Business Statistics (4)



9. Four units chosen from (also meets the General Education requirement category B1):

MATH 110.	College Algebra (4)
MATH 120.	Pre-Calculus Mathematics (4)
MATH 192.	Methods of Calculus (4)
MATH 211.	Basic Concepts of Calculus (4)

#### Upper-division core requirements (36 units)

1. FIN 313. Business Finance (4)
2. FIN 314. Corporate Financial Management (4)
3. INFO 309. Information Management (4)
4. Four units chosen from:
  - MGMT 302. Management and Organizational Behavior (4)
  - PSYC 302. Management and Organizational Behavior (4)
5. MGMT 330. Legal Environment of Business (4)
6. MGMT 490. Strategic Management (4)
7. MKTG 305. Marketing Principles (4)
8. PA 315. Government-Business Relations (4)
9. SCM 304. Principles of Supply Chain Management (4)

#### Concentration (44 units)

Choose one concentration from the following:

**Note:** The concentration electives should be chosen from the electives listed for each concentration or, with the prior approval of the department chair, the student may substitute other courses for these electives. With prior approval, up to two of the concentration electives may be chosen from other academic disciplines. In planning their career goals, students should review course offerings of other departments to determine if specific courses fit their career plans.

#### Accounting Concentration

1. ACCT 315. Accounting Information Systems (4)
2. ACCT 347. Management Accounting and Decision Making (4)
3. ACCT 372. Intermediate Accounting (4)
4. ACCT 373. Problem Areas in Intermediate Accounting (4)
5. ACCT 426. Introduction to Taxation (4)
6. ACCT 440. Financial Statement Auditing (4)
7. Twenty units to be chosen from the following (in consultation with advisor):
  - ACCT 441. Advanced Auditing (4)
  - ACCT 442. Internal and Operational Auditing (4)
  - ACCT 444. Accounting Law, Ethics and Institutions (4)
  - ACCT 447. Cost Accounting (4)
  - ACCT 536. Corporate and Partnership Taxation (4)
  - ACCT 539. Advanced Accounting (4)
  - ACCT 556. Estates and Gifts and other Specialized Taxation Topics (4)

May choose only one of the following two courses:

ACCT 568. Accounting for Government and Not-for-Profit Organizations (4)

PA 568. Accounting for Government and Not-for-Profit Organizations (4)

- ACCT 574. Reporting Issues in Intermediate Accounting (4)
- ACCT 575. Internship in Accounting (4)
- ACCT 590. Seminar in Accounting (4)
- ACCT 595. Independent Study (2 or 4)

#### Accounting Information Systems Concentration

1. ACCT 315. Accounting Information Systems (4)
2. ACCT 347. Management Accounting and Decision Making (4)
3. ACCT 372. Intermediate Accounting (4)
4. ACCT 373. Problem Areas in Intermediate Accounting (4)
5. ACCT 426. Introduction to Taxation (4)
6. ACCT 440. Financial Statement Auditing (4)

7. CSCI 201. Computer Science I (4)
8. CSCI 202. Computer Science II (4)
9. Twelve units chosen from:
  - CSCI 330. Data Structures (4)
  - CSCI 455. Software Engineering (4)
  - INFO 274. Data Base Management and Policies (4)
  - INFO 275. Information Networking and Security (4)
  - INFO 276. Systems Analysis and Design (4)
  - INFO 372. Information Technology (4)
  - INFO 474. Advanced Data Base Management and Information Assurance (4)
  - INFO 475. Advanced Information Networking and Security (4)
  - INFO 476. Advanced Systems Analysis and Design (4)

#### Finance Concentration

1. Four units chosen from:
  - FIN 360. Financial Planning Process and Insurance (4)
  - FIN 380. Principles of Real Estate (4)
2. FIN 430. Financial Theory and Practice (4)
3. FIN 432. Financial Institutions and Capital Formation (4)
4. FIN 433. International Business Finance (4)
5. FIN 435. Investment Analysis (4)
6. FIN 445. Financial Analysis and Decision-Making (4)
7. Twenty units of electives chosen from:
  - ACCT 372. Intermediate Accounting (4)
  - ACCT 373. Problem Areas in Intermediate Accounting (4)
  - ACCT 426. Introduction to Taxation (4)
  - ACCT 447. Cost Accounting (4)
  - ACCT 536. Corporate and Partnership Taxation (4)
  - ACCT 556. Estates and Gifts and other Specialized Taxation Topics (4)
  - ECON 410. Money and Banking (4)
  - ECON 475. Public Finance (4)
  - FIN 360. Financial Planning Process and Insurance (if not taken previously) (4)
  - FIN 380. Principles of Real Estate (if not taken previously) (4)
  - FIN 480. Real Estate Appraisal (4)
  - FIN 523. Security Trading and Analysis (4)
  - FIN 534. Export-Import Financing (4)
  - FIN 575. Internship in Finance (4)
  - FIN 585. Real Estate Finance (4)
  - FIN 590. Seminar in Finance (4)
  - MGMT 442. Small Business Management (4)
  - SCM 350. Applied Decision Analysis (4)

**Note:** Students interested in taking the CFP examination should take the following as their electives: ACCT 426, 536, 556 and FIN 360.

#### Financial Planning Concentration

1. ACCT 426. Introduction to Taxation (4)
2. ACCT 556. Estates and Gifts and Other Specialized Taxation Topics (4)
3. FIN 360. Financial Planning Process and Insurance (4)
4. FIN 430. Financial Theory and Practice (4)
5. FIN 435. Investment Analysis (4)
6. FIN 460. Retirement Planning (4)
7. Twenty units chosen from:
  - ACCT 536. Corporate and Partnership Taxation (4)
  - FIN 380. Principles of Real Estate (4)
  - FIN 433. International Business Finance (4)
  - FIN 445. Financial Analysis and Decision-Making (4)
  - FIN 523. Security Trading and Analysis (4)
  - FIN 585. Real Estate Finance (4)
  - MGMT 442. Small Business Management (4)
  - MKTG 430. Professional Selling and Sales Management (4)

**76 / Administration****Information Assurance and Security Management Concentration**

1. INFO 274. Data Base Management and Policies (4)
2. INFO 275. Information Networking and Security (4)
3. INFO 276. Systems Analysis and Design (4)
4. INFO 372. Information Technology (4)
5. INFO 378. Information Problem Solving and Risk Management (4)
6. INFO 474. Advanced Data Base Management and Information Assurance (4)
7. INFO 475. Advanced Information Networking and Security (4)
8. INFO 490. Information Systems Planning and Policy (4)
9. INFO 511. Information Assurance and Security (4)
10. Eight units chosen from any Information Management or Computer Science major courses, HSCI 437, or CJUS 550.

**Information Management Concentration**

1. INFO 274. Data Base Management and Policies (4)
2. INFO 275. Information Networking and Security (4)
3. INFO 490. Information Systems Planning and Policy (4)
4. Thirty-two units chosen from one of the following three speciality areas:

**Computer Information Systems Speciality Area**

1. INFO 276. Systems Analysis and Design (4)
2. INFO 372. Information Technology (4)
3. INFO 378. Information Problem Solving and Risk Management (4)
4. INFO 474. Advanced Data Base Management and Information Assurance (4)
5. INFO 475. Advanced Information Networking and Security (4)
6. INFO 476. Advanced Systems Analysis and Design (4)
7. Eight units chosen from any INFO or CSCI major courses.

**E-Business Speciality Area**

1. INFO 150. Web Publishing (4)
2. INFO 282. Business Systems I (4)
3. INFO 474. Advanced Data Base Management and Information Assurance (4)
4. INFO 485. E-Business (4)
5. MKTG 540. E-Marketing (4)
6. Twelve units chosen from:
  - ACCT 372. Intermediate Accounting (4)
  - ACCT 373. Problem Areas in Intermediate Accounting (4)
  - INFO 283. Business Systems II (4)
  - INFO 372. Information Technology (4)
  - INFO 378. Information Problem Solving and Risk Management (4)
  - INFO 475. Advanced Information Networking and Security (4)
  - SCM 470. Supply Chain Management (4)

**Information Management Speciality Area**

1. INFO 372. Information Technology (4)
2. INFO 378. Information Problem Solving and Risk Management (4)
3. Twenty-four units chosen from any INFO courses (16 units must be from 300-, 400- and 500-level courses).

**International Business Concentration**

1. FIN 433. International Business Finance (4)
2. MGMT 405. International Management (4)
3. MGMT 406. International Business Law (4)
4. MKTG 470. International Marketing Management (4)

5. Four units chosen from:
  - ECON 430. International Economics (4)
  - ECON 435. Multinational Corporations (4)
6. Twelve units in the same language chosen from the following categories:
  - A. FREN 202. Conversation and Composition II (4)
  - FREN 309. French for Translators (4)
  - FREN 350. Advanced French Composition (4)
  - B. GER 214. Conversation (4)
  - GER 309. Advanced German Composition (4)
  - GER 312. Business German (4)
  - C. SPAN 212. Composition (4)
  - SPAN 213. Composition for Heritage/Native Speakers (4)
  - SPAN 302. Theory and Practice in Composition (4)
  - SPAN 314. Advanced Conversation (4)

**Note:** Students may receive credit for only one from SPAN 212 or SPAN 213.
- D. Twelve units of upper-division course work in the same language other than French, German, or Spanish.

**Note:** Students may have any or all of the above listed foreign language courses waived by demonstrating equivalent language proficiency. Responsibility for determining this proficiency rests with the Chair of the Department of Management after consultation with the World Languages and Literatures Department Chair. Students having any of these foreign language courses waived must substitute an equal number of units from the electives listed below.
7. Twelve units chosen from:
  - ANTH 485. Applied Anthropology and Social Policy (4)
  - ECON 430. International Economics (4) (if not taken previously)
  - ECON 435. Multinational Corporations (4) (if not taken previously)
  - FIN 534. Export-Import Financing (4)
  - MGMT 324. International Environmental Management (4)
  - MGMT 335. Business and Society (4)
  - MGMT 407. Comparative Management Systems of the Americas (4)
  - MGMT 459. Work Group Management (4)
  - MGMT 590. Seminar in Management (4)
  - MKTG 572. Import-Export Management (4)
  - 8. MGMT 998. Baccalaureate Reflective Essay (0)

**Marketing Concentration**

1. MKTG 410. Consumer Behavior (4)
2. MKTG 416. Marketing Research (4)
3. MKTG 420. Advertising (4)
4. MKTG 430. Professional Selling and Sales Management (4)
5. MKTG 436. Marketing Decision-Making (4)
6. MKTG 496. Marketing Planning and Strategy (4)
7. Twenty units chosen from:
  - MKTG 415. Product Management (4)
  - MKTG 438. Industrial Marketing (4)
  - MKTG 446. Advertising Campaign (4)
  - MKTG 460. Retailing (4)
  - MKTG 462. Merchandising (4)
  - MKTG 470. International Marketing Management (4)
  - MKTG 520. Integrated Marketing Communication (4)
  - MKTG 525. Sports and Entertainment Marketing (4)
  - MKTG 530. Strategic Entrepreneurship (4)
  - MKTG 540. E-Marketing (4)
  - MKTG 550. Advanced Sports Marketing Planning and Strategy (4)
  - MKTG 555. Advanced Entertainment Marketing Planning and Strategy (4)

- MKTG 560. Services Marketing (4)
- MKTG 565. Logistics (4)
- MKTG 572. Import-Export Management (4)
- MKTG 575. Internship in Marketing (4)
- MKTG 590. Seminar in Marketing (4)
- MKTG 595. Independent Study (4)

**Real Estate Concentration**

1. FIN 380. Principles of Real Estate (4)
2. FIN 430. Financial Theory and Practice (4)
3. FIN 432. Financial Institutions and Capital Formation (4)
4. FIN 480. Real Estate Appraisal (4)
5. Four units chosen from:
  - FIN 481. Real Estate Practice (4)
  - FIN 485. Legal Aspects of Real Estate (4)
  - FIN 585. Real Estate Finance (4)
7. Twenty units chosen from:
  - ACCT 347. Management Accounting and Decision Making (4)
  - ACCT 372. Intermediate Accounting (4)
  - ACCT 373. Problem Areas in Intermediate Accounting (4)
  - ACCT 426. Introduction to Taxation (4)
  - ACCT 536. Corporate and Partnership Taxation (4)
  - ECON 410. Money and Banking (4)
  - FIN 360. Financial Planning Process and Insurance (4)
  - FIN 433. International Business Finance (4)
  - FIN 435. Investment Analysis (4)
  - FIN 445. Financial Analysis and Decision-Making (4)
  - FIN 481. Real Estate Practice (4) (if not taken as a required course)
  - FIN 482. Real Estate Development (4)
  - FIN 485. Legal Aspects of Real Estate (4) (if not taken as a required course)
  - FIN 523. Security Trading and Analysis (4)
  - FIN 575. Internship in Finance (4)
  - MKTG 430. Professional Selling and Sales Management (4)

**MINOR IN ACCOUNTING****Requirements (28 units)****Requirements for a minor in Accounting:**

Lower-division requirements (8 units)

1. ACCT 211. Introductory Accounting I (4)
2. ACCT 212. Introductory Accounting II (4)

Upper-division requirements (20 units)

1. ACCT 372. Intermediate Accounting (4)
2. Sixteen units chosen from:
  - ACCT 315. Accounting Information Systems (4)
  - ACCT 347. Management Accounting and Decision Making (4)
  - ACCT 373. Problem Areas in Intermediate Accounting (4)
  - ACCT 426. Introduction to Taxation (4)
  - ACCT 440. Financial Statement Auditing (4)
  - ACCT 441. Advanced Auditing (4)
  - ACCT 442. Internal and Operational Auditing (4)
  - ACCT 444. Accounting Law, Ethics and Institutions (4)
  - ACCT 447. Cost Accounting (4)
  - ACCT 536. Corporate and Partnership Taxation (4)
  - ACCT 539. Advanced Accounting (4)
  - ACCT 556. Estates and Gifts and other Specialized Taxation Topics (4)
  - ACCT 568. Accounting for Government and Not-for-Profit Organizations (4)
  - ACCT 574. Reporting Issues in Intermediate Accounting (4)

**MINOR IN BUSINESS ADMINISTRATION****Requirements (28 units)****Requirements for a minor in Business Administration:**

1. ACCT 211. Introductory Accounting I (4)
2. MGMT 230. Business Law (4)
3. Twenty units of which nine units must be upper-division, usually from one area (i.e., accounting, economics, finance, information management, management, marketing, or supply chain management), chosen in consultation with the associate dean. Twenty units of the minor must be completed at CSUSB.

**MINOR IN BUSINESS INFORMATION MAPPING****Requirements (32 units)****Requirements for a minor in Business Information Mapping:**

1. INFO 102. Introduction to Information Technology (2)
2. INFO 103. Using Information Technology Applications (2)
3. INFO 280. Information Mapping and Data Visualization (4)
4. INFO 309. Information Management (4)
5. INFO 480. Advanced Information Mapping and Visualization (4)
6. Technical Area  
Eight units chosen from:
  - INFO 274. Data Base Management and Policies (4)
  - INFO 282. Business Systems I (4)
  - INFO 477. Decision Support Systems (4)
  - MKTG 416. Marketing Research (4)
  - MKTG 565. Logistics (4)
  - SCM 350. Applied Decision Analysis (4)
7. General Area  
Eight units chosen from:
  - FIN 380. Principles of Real Estate (4)
  - FIN 432. Financial Institutions and Capital Formation (4)
  - INFO 378. Information Problem Solving and Risk Management (4)
  - MGMT 324. International Environmental Management (4)
  - PA 521. Principles of Planning (4)
  - PA 564. Local Public Administration (4)

**MINOR IN ENTREPRENEURSHIP****Requirements (24 units)****Requirements for a minor in Entrepreneurship**

1. MGMT 442. Small Business Management (4)
2. MGMT 547. Managing a Growing Business (4)
3. MGMT 549. Launching the Entrepreneurial Venture (4)
4. Twelve units chosen from:
  - MGMT 455. Human Resources Management (4)
  - MGMT 515. Business Consulting (4)
  - MGMT 541. Commercialization Entrepreneurial Innovation (4)
  - MGMT 543. Entrepreneurial Opportunity Analysis (4)
  - MGMT 545. Entrepreneurial Resource Requirements (4)
  - MGMT 575. Internship in Management (4)
  - MKTG 460. Retailing (4)
  - MKTG 520. Integrated Marketing Communication (4)
  - MKTG 530. Strategic Entrepreneurship (4)

**NOTE:** Students concentrating in Entrepreneurial Management may not minor in Entrepreneurship

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**MINOR IN FINANCE**

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**Requirements (24 units)**

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**Requirements for a minor in Finance:**

Lower-division requirements (8 units)

1. ACCT 211. Introductory Accounting I (4)
2. ACCT 212. Introductory Accounting II (4)

Upper-division requirements (16 units)

1. FIN 313. Business Finance (4)
2. FIN 314. Corporate Financial Management (4)
3. Eight units chosen from:
  - FIN 360. Financial Planning Process and Insurance (40)
  - FIN 430. Financial Theory and Practice (4)
  - FIN 432. Financial Institutions and Capital Formation (4)
  - FIN 433. International Business Finance (4)
  - FIN 435. Investment Analysis (4)
  - FIN 445. Financial Analysis and Decision-Making (4)
  - FIN 534. Export-Import Financing (4)

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**MINOR IN HUMAN RESOURCES MANAGEMENT**

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**Requirements (24 units)**

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**Requirements for a minor in Human Resources Management:**

1. MGMT 302. Management and Organizational Behavior (4)
2. MGMT 455. Human Resources Management (4)
3. MGMT 456. Developing an Effective Workforce (4)
4. MGMT 457. Industrial and Labor Relations (4)
5. MGMT 458. Fair Employment Practices (4)
6. Four units of upper-division elective course work chosen with the approval of a Management Department advisor.

**NOTE:** Students concentrating in Management with either the Management Specialty Area or the Human Resources Specialty Area may not minor in Human Resources Management.

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**MINOR IN INFORMATION MANAGEMENT**

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**Requirements (24 units)**

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**Requirements for a minor in Information Management:**

Lower-division requirements (12 units)

1. INFO 102. Introduction to Information Technology (2)
2. INFO 103. Using Information Technology Applications (2)
3. Eight units chosen from any INFO 100- and 200-level courses.

Upper-division requirements (12 units)

1. INFO 309. Information Management (4)
2. Eight units chosen from any INFO 300-, 400- and 500-level courses.

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**MINOR IN MANAGEMENT**

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**Requirements (28 units)**

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**Requirements for a minor in Management:**

Lower-division requirements (8 units)

1. MGMT 100. Introduction to Business and Public Administration (4)
2. MGMT 230. Business Law (4)

Upper-division requirements (20 units)

1. MGMT 302. Management and Organizational Behavior (4)
2. MGMT 330. Legal Environment of Business (4)
3. Twelve units chosen from any MGMT 300-, 400- and 500-level courses.

**NOTE:** Students concentrating in Management with either the Management Specialty Area or the Human Resources Specialty Area may not minor in Management.

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**MINOR IN MARKETING**

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**Requirements (24 units)**

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**Requirements for a minor in Marketing:**

1. MKTG 305. Marketing Principles (4)
2. MKTG 410. Consumer Behavior (4)
3. Sixteen units chosen from:
  - MKTG 415. Product Management (4)
  - MKTG 416. Marketing Research (4)
  - MKTG 420. Advertising (4)
  - MKTG 430. Professional Selling and Sales Management (4)
  - MKTG 436. Marketing Decision-Making (4)
  - MKTG 438. Industrial Marketing (4)
  - MKTG 446. Advertising Campaign (4)
  - MKTG 460. Retailing (4)
  - MKTG 462. Merchandising (4)
  - MKTG 470. International Marketing Management (4)
  - MKTG 496. Marketing Planning and Strategy (4)
  - MKTG 520. Integrated Marketing Communication (4)
  - MKTG 525. Sports and Entertainment Marketing (4)
  - MKTG 530. Strategic Entrepreneurship (4)
  - MKTG 540. E-Marketing (4)
  - MKTG 550. Advanced Sports Marketing Planning and Strategy (4)
  - MKTG 555. Advanced Entertainment Marketing Planning and Strategy (4)
  - MKTG 560. Services Marketing (4)
  - MKTG 565. Logistics (4)
  - MKTG 572. Import-Export Management (4)
  - MKTG 575. Internship in Marketing (4)
  - MKTG 590. Seminar in Marketing (4)
  - MKTG 595. Independent Study (4)

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**MINOR IN PUBLIC ADMINISTRATION**

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**Requirements (28 units)**

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**Requirements for a minor in Public Administration:**

Lower-division requirement (4 units)

1. ECON 200. Principles of Microeconomics (4)

Upper-division requirements (24 units)

1. ECON 475. Public Finance (4)
2. Four units chosen from:
  - MGMT 302. Management and Organizational Behavior (4)
  - PSYC 302. Management and Organizational Behavior (4)
3. Four units chosen from:
  - PA 380. Introduction to Public Administration (4)
  - PSCI 380. Introduction to Public Administration (4)
4. PA 462. Public Personnel Administration (4)
5. PA 463. Governmental Budgeting (4)
6. PA 472. Administrative Law (4)



**MINOR IN REAL ESTATE****Requirements (28 units)****Requirements for a minor in Real Estate:**

Lower-division requirements (8 units)

1. ACCT 211. Introductory Accounting I (4)
2. ACCT 212. Introductory Accounting II (4)

Upper-division requirements (20 units)

1. FIN 313. Business Finance (4)
2. FIN 314. Corporate Financial Management (4)
3. FIN 380. Principles of Real Estate (4)
4. Eight units chosen from:
  - FIN 432. Financial Institutions and Capital Formation (4)
  - FIN 480. Real Estate Appraisal (4)
  - FIN 481. Real Estate Practice (4) if not taken previously
  - FIN 485. Legal Aspects of Real Estate (4)
  - FIN 585. Real Estate Finance (4) if not taken previously

**MINOR IN SPORTS MANAGEMENT****Requirements (28 units)****Requirements for a minor in Sports Management:**

Lower-division requirement (16 units)

1. MGMT 531. Sports Management (4)
2. MGMT 533. Sports and Hospitality Business Law (4)
3. MGMT 575. Internship in Management (4)
4. MKTG 525. Sports and Entertainment Marketing (4)

Electives (12 units)

1. Twelve units chosen from:
  - INFO 378. Information Problem Solving and Risk Management (4)
  - MGMT 335. Business and Society (4)
  - MGMT 350. Administrative Communication (4)
  - MGMT 451. Organization and Management Theory (4)
  - MGMT 455. Human Resources Management (4)
  - SCM 350. Applied Decision Analysis (4)

**MINOR IN SUPPLY CHAIN MANAGEMENT****Requirements (28 units)****Requirements for a minor in Supply Chain Management:**

Lower-division requirement (8 units)

1. SCM 205. Enterprise Systems (4)
2. SCM 210. Applied Business Statistics (4)

Upper-division requirements (20 units)

1. SCM 304. Principles of Supply Chain Management (4)
2. SCM 350. Applied Decision Analysis (4)
3. SCM 470. Supply Chain Management (4)
4. SCM 480. Quality Management (4)
5. SCM 490. Logistics Strategy (4)

**DEPARTMENTAL HONORS**

Students majoring in administration are eligible to receive departmental honors if the following conditions are met:

1. At least four courses in the concentration are completed at this university;
2. A minimum grade point average of 3.5 for all courses satisfying the requirements for the major;

3. One of the following:

- A. A minimum grade point average of 3.8 for all courses satisfying the requirements of the concentration;
- B. A grade of "A" (4.0) in a specific College of Business and Public Administration 595. Independent Study course, developed for honors consideration;
- C. Author or coauthor an article accepted for publication in a leading scholarly journal in their field.

The honor is awarded by the faculty of the department, and students who wish to receive this distinction should initiate the process by submitting a letter of application to the appropriate department office at the beginning of their senior year.

**BETA ALPHA PSI**

Founded in 1919, Beta Alpha Psi is a national scholastic and professional accounting fraternity. The primary objective of the fraternity is to encourage and give recognition to scholastic and professional excellence in the field of accounting. This includes promoting the study and practice of accounting; providing opportunities for self-development and association among members and practicing accountants; and encouraging a sense of ethical, social and public responsibility. The letters Beta, Alpha and Psi denote Scholarship, Social Responsibility and Practicality, respectively.

**BETA GAMMA SIGMA**

The university has an active chapter of Beta Gamma Sigma, a national organization that encourages and honors academic achievement and personal excellence in the study and practice of business. Membership is by invitation extended to undergraduate and graduate business students of high scholarship and good moral character.

**CERTIFICATE PROGRAMS**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. See Page 58 for additional certificate information.

**Accounting Certificate****Certificate Requirements (36 units)**

1. ACCT 211. Introductory Accounting I (4)
  2. ACCT 212. Introductory Accounting II (4)
- Note:** Students may substitute the following course for ACCT 211 and 212:
- ACCT 503. Financial Accounting (4)
3. ACCT 315. Accounting Information Systems (4)
  4. ACCT 347. Management Accounting and Decision Making (4)
  5. ACCT 372. Intermediate Accounting (4)
  6. ACCT 373. Problem Areas in Intermediate Accounting (4)
  7. ACCT 426. Introduction to Taxation (4)
  8. ACCT 440. Financial Statement Auditing (4)
  9. Four units chosen in consultation with an advisor from:
    - ACCT 441. Advanced Auditing (4)
    - ACCT 442. Internal and Operational Auditing (4)
    - ACCT 444. Accounting Law, Ethics, and Institutions (4)
    - ACCT 536. Corporate and Partnership Taxation (4)
    - ACCT 539. Advanced Accounting (4)
    - ACCT 556. Estates and Gifts and other Specialized Taxation Topics (4)
    - ACCT 568. Accounting for Government and Not-for-Profit Organizations (4)

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- ACCT 574. Reporting Issues in Intermediate Accounting (4)  
ACCT 590. Seminar in Accounting (4)

Electives (4 units)

1. Four units chosen from:  
GEOG 350. Conservation and Natural Resources (4)  
MGMT 335. Business and Society (4)  
MGMT 405. International Management (4)  
PA 472. Administration Law (4)

**Human Resources Certificate****Certificate Requirements (24 units)**

1. MGMT 302. Management and Organizational Behavior (4)
2. MGMT 455. Human Resources Management (4)
3. MGMT 456. Developing an Effective Workforce (4)
4. MGMT 457. Industrial and Labor Relations (4)
5. MGMT 458. Fair Employment Practices (4)
6. Four units of upper-division elective coursework chosen with the approval of a Management Department advisor.

**Information Systems Management Certificate****Certificate Requirements (32 units)**

Lower-division requirements (16 units)

1. INFO 102. Introduction to Information Technology (2)
2. INFO 103. Using Information Technology Applications (2)
3. Twelve units chosen from any INFO 100- and 200-level courses.

Upper-division requirements (16 units)

1. INFO 309. Information Management (4)
2. Twelve units chosen from any INFO 300-, 400- and 500-level courses.

**Sports Management Certificate****Certificate Requirements (28 units)**

Lower-division requirements (16 units)

1. MGMT 531. Sports Management (4)
2. MGMT 533. Sports and Hospitality Business Law (4)
3. MGMT 575. Internship in Management (4)
4. MKTG 525. Sports and Entertainment Marketing (4)

Electives (12 units)

1. Twelve units chosen from:  
INFO 378. Information Problem Solving and Risk Management (4)  
MGMT 335. Business and Society (4)  
MGMT 350. Administrative Communications (4)  
MGMT 451. Organization and Management Theory (4)  
MGMT 455. Human Resources Management (4)  
SCM 350. Applied Decision Analysis (4)

**Supply Chain Management Certificate****Certificate Requirements (32 units)**

1. SCM 205. Enterprise Systems (4)
2. SCM 210. Applied Business Statistics (4)
3. SCM 304. Principles of Supply Chain Management (4)
4. SCM 350. Applied Decision Analysis (4)
5. SCM 470. Supply Chain Management (4)
6. SCM 480. Quality Management (4)
7. SCM 490. Logistics Strategy (4)
8. Four units chosen from:  
INFO 477. Decision Support Systems (4)  
SCM 405. Advanced Enterprise Systems (4)

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**COURSE OFFERINGS IN****ADMINISTRATION (ADMN)**

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**Upper Division****501. Quantitative Methods for Managers**

A review of major analytical methods used by managers to facilitate their decision making, including accounting, finance, operations and other decision science tools. (4 units)

**502. Managerial Communication and Policy**

A review and integration of the managerial areas of human resource management, marketing, organizational communication, negotiation skills, and policy and strategy into a decision-making framework that is bound by legal, ethical and global considerations. (4 units)

**590. Seminar in Administration**

Intensive study of some phase of administration to be developed by instructor. May be repeated for credit as topics change. (2-4 units)

# AEROSPACE STUDIES (AIR FORCE ROTC)

## Aerospace Studies Office

Temporary Bldg. TA-5, Room 105  
(909) 537-5440 <http://afrotc.csusb.edu/>  
Aerospace Studies Program

**FACULTY:** Lt Col John W. Henderson, Capt Stephen S. Mahoney,  
Capt Joseph G. Streets

Air Force ROTC is a college-level program designed to select and train highly qualified men and women to become commissioned Air Force officers. After graduation from college and completion of all Air Force ROTC requirements, cadets are commissioned as second lieutenants in the U.S. Air Force. Typical service is four years; however, service duration for pilots, navigators and nurses is longer. These individuals serve in a broad range of careers to include actual flying, engineering, administration and a host of other fields, depending on the individual's academic background.

To enter Air Force ROTC, an individual must have at least two years of college left, which may include graduate study. In addition, the individual must be a United States citizen prior to entering the last two years of the program, be able to pass an Air Force medical exam, be of high moral character and be in good academic standing in school. Entry into the last two years of the program is on a competitive basis.

Students are required to graduate with a bachelor's degree, in any academic major, and complete one of the two program options. AFROTC offers 2, 3, and 4-year scholarships of up to \$15,000, but scholarships are not required to participate in the program. AFROTC cadets under scholarship and all juniors and seniors receive a \$300-\$500 per month tax-free stipend, plus a \$900 textbook allowance each year. No military commitment is incurred until entering the last two years of the program (Professional Officer Course) or accepting an AFROTC scholarship.

Classes consist of one hour of academics plus two hours of leadership laboratory for freshmen and sophomores. Juniors and seniors will have three hours of academics plus two hours of leadership laboratory. The academic hours earned can normally be counted as elective credit toward graduation. All AFROTC classes and laboratories are held on Fridays to better accommodate students commuting from other colleges and universities.

More information is available here: <http://www.afrotc.com> and <http://www.DoSomethingAmazing.com>

## AEROSPACE STUDIES PROGRAM

### Program Requirements

#### Option I (Four Year Program)

##### Program Requirements (24 units)

The four year program is available to students with three to four years of undergraduate/graduate study remaining. Entry into the program requires university course enrollment and consultation with the AFROTC admissions officer in the department. The program consists of three parts: General Military Course (academics and laboratory), Field Training, and the Professional Officer Course (academics and laboratory).

#### General Military Course (GMC)

1. AS 090. Leadership Laboratory (0) (required every quarter)
2. AS 101. The Air Force Today I (1)
3. AS 102. The Air Force Today II (1)
4. AS 103. The Air Force Today III (1)
5. AS 201. The Development of Air Power I (1)
6. AS 202. The Development of Air Power II (1)
7. AS 203. The Development of Air Power III (1)

#### Field Training

A four-week, noncredit course conducted at an Air Force base during the summer between the second and third years of the program. Successful completion is required before continuing in the program.

#### Professional Officer Course (POC)

1. AS 090. Leadership Laboratory (0) (required every quarter)
2. AS 301. Air Force Leadership and Management I (3)
3. AS 302. Air Force Leadership and Management II (3)
4. AS 303. Air Force Leadership and Management III (3)
5. AS 401. National Security Forces in Contemporary American Society I (3)
6. AS 402. National Security Forces in Contemporary American Society II (3)
7. AS 403. National Security Forces in Contemporary American Society III (3)

#### Option II (Two Year Program)

##### Program Requirements (18 units)

Application for the two-year program is made in the fall and winter quarters for Field Training attendance, during the summer, and prior to entry into the POC. Field Training selection is based on a number of highly competitive criteria. For an application and selection criteria contact the department. The two year program is available to students with two years of undergraduate/graduate study remaining. The program consists of two parts: Field Training and the Professional Officer Course (academics and laboratory).

#### Field Training

Prerequisite for entry in the two-year program. A five-week, non-credit course conducted at an Air Force base during the summer before entry into the Professional Officer Course. Successful completion is required before continuing in the program.

#### Professional Officer Course (POC)

1. AS 090. Leadership Laboratory (0) (required every quarter)
2. AS 301. Air Force Leadership and Management I (3)
3. AS 302. Air Force Leadership and Management II (3)
4. AS 303. Air Force Leadership and Management III (3)
5. AS 401. National Security Forces in Contemporary American Society I (3)
6. AS 402. National Security Forces in Contemporary American Society II (3)
7. AS 403. National Security Forces in Contemporary American Society III (3)

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**COURSE OFFERINGS IN  
AEROSPACE STUDIES (AS)**

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**90. Leadership Laboratory**

Open only to enrolled Air Force ROTC cadets. Cadets must be concurrently enrolled in aerospace studies courses. Designed to allow students to apply leadership techniques and military skills taught in classroom and to develop their confidence as future military officers. Graded credit/no credit (0 units)

**Lower Division****101. The Air Force Today I**

Examines the roles and ethical standards expected of an Air Force officer. Presents the opportunities and benefits of being an Air Force officer. (1 unit)

**102. The Air Force Today II**

The Air Force organization, structure, and mission with emphasis on the basic skills used by military officers. (1 unit)

**103. The Air Force Today III**

Further analysis of ethical standards expected of an Air Force officer with an emphasis on group dynamics. (1 unit)

**201. The Development of Air Power I**

Development of air power technology and tactics from 1900 through the Vietnam War and its impact on military thought. (1 unit)

**202. The Development of Air Power II**

Development of air power technology and tactics from the Vietnam War to present and its impact on military thought. (1 unit)

**203. The Development of Air Power III**

In-depth discussion of values and public expectations as they relate to military officers. (1 unit)

**Upper Division****301. Air Force Leadership and Management I**

Principles and functions of management and leadership. (3 units)

**302. Air Force Leadership and Management II**

"Quality Air Force" initiatives, procedures, and applications. (3 units)

**303. Air Force Leadership and Management III**

Ethics in modern society and the military, including the "Standards of Conduct" and the principles of modern warfare. (3 units)

**401. National Security Forces in Contemporary  
American Society I**

Forces and issues that influence policy decisions and application of military force. The impact of the executive branch and Congress on military operations. (3 units)

**402. National Security Forces in Contemporary  
American Society II**

Geopolitical influences on U.S. political decision making and the use of military force. (3 units)

**403. National Security Forces in Contemporary  
American Society III**

Basic knowledge necessary for effective military leadership including consideration of legal issues and the military judicial system. (3 units)



# AMERICAN STUDIES

## College of Arts and Letters

University Hall, Room 237  
(909) 537-5800 <http://cal.csusb.edu/>

### Bachelor of Arts

American Studies

**COORDINATOR:** David Carlson

The American Studies major provides students with a broad introduction to American culture. The major incorporates course work from a variety of disciplines, and it encourages students to recognize the diversity of our culture. Consequently, American Studies is an appropriate program for those students who wish to be informed citizens as well as for those who also are looking for a useful context for careers in education, government, law, library work and related fields.

The major consists of a basic set of requirements in American literature, art and history. These requirements provide students with a historical overview of the culture as well as the investigative methods for understanding that culture. Related electives allow students to pursue their individual interests. This degree totals 72 units. Students who are interested in earning a teaching credential in either multiple subject or a single subject should consult the section, "Basic Teaching Credentials," in this catalog, Page 152.

## B.A. IN AMERICAN STUDIES

### Requirements (72 units)

**Total units required for graduation: 180**

Lower-division prerequisites (12 units):

1. ENG 140. Major American Authors (4)
2. HIST 146. American Civilization (4)
3. PSCI 203. American Government (4)

**Note:** HIST 146. American Civilization and PSCI 203. American Government fulfill categories D-1 and D-2 respectively in general education requirements. These units cannot be counted in more than one category.

### Requirements for the B.A. in American Studies:

Upper-division requirements (72 units)

#### A. Concepts and Methods (8 units)

1. AMST 300. Introduction to American Studies (4)
2. HUM 344. Ideas in American Culture (4)

#### B. American Arts (12 units)

1. ART 311. Art of the United States to the End of the Nineteenth Century (4)

#### 2. Women and/or minorities:

Four units chosen from:

- ANTH 323. Native North American Art (4)
- ART 323. Native North American Art (4)
- MUS 351. Latin American Music (4)
- MUS 352. African American Music (4)

#### 3. American arts:

Four units chosen from:

- ANTH 323. Native North American Art (4)
- ART 323. Native North American Art (4)
- MUS 351. Latin American Music (4)
- MUS 352. African American Music (4)
- MUS 360. Music in the United States (4)
- TA 461. American Drama (4)

**Note:** Students may receive credit for only one of the following:

- ANTH 323. Native North American Art
- ART 323. Native North American Art

#### C. Historical and Social Contexts (24 units)

##### 1. Historical Periods

Twelve units chosen from:

- HIST 350. The American Colonies, 1607-1783 (4)
- HIST 351. The Evolution of American Democracy, 1783-1840 (4)
- HIST 354. Civil War and Reconstruction (4)
- HIST 356. The United States, 1877-1917 (4)
- HIST 357. The United States, 1917-1945 (4)
- HIST 359. The United States Since 1945 (4)

##### 2. Social Contexts

Twelve units chosen from one of the following groups:

##### Economics

- ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)
- ECON 352. The Economics of Poverty and Discrimination (4)
- ECON 360. Economics of the Environment (4)
- ECON 421. Economic History of the United States (4)

##### Religion

- HIST 380. History of World Religions (4)
- SSCI 345. Religious Expression in America (4)
- SOC 380. Sociology of Religion (4)

##### Women and Minorities in America

- ANTH 305. North American Prehistory (4)
- ANTH 323. Native North American Art (4)
- ANTH 351. Indians of North America (4)
- ART 323. Native North American Art (4)
- ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)
- ECON 352. The Economics of Poverty and Discrimination (4)
- HIST 391. Chicano History (4)
- HIST 565. Ethnic Minorities in American History (4)
- PSCI 340. Sex and Politics (4)
- PSCI 352. Minority Politics (4)
- SOC 410. Sociology of Race and Ethnicity (4)
- SOC 440. Social Class (4)
- SOC 441. Black Social Stratification (4)
- SOC 442. Chicano Social Stratification (4)
- SOC 444. Sociology of Gender (4)

**Note:** Students may receive credit for only one of the following and may apply that credit in either the American Arts Category or the Historical and Social Contexts Category but not both:

- ANTH 323. Native North American Art
- ART 323. Native North American Art

##### Political Thought

- ANTH 315. Archaeology of the Southwest and California (4)
- ANTH 352. Indians of the Southwest (4)
- GEOG 302. Geography of California (4)
- GEOG 350. Conservation and Natural Resources (4)
- GEOG 440. Understanding the City (4)
- HIST 370. History of California (4)
- HIST 560. History of the American West (4)
- HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
- PSCI 310. Classical Political Thought (4)
- PSCI 311. Foundations of Modern Political Thought (4)
- PSCI 314. American Political Thought (4)
- PSCI 326. Political Parties and Interest Groups (4)
- PSCI 342. The Politics of Environment (4)

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- PSCI 410. American Constitutional Law (4)
- PSCI 411. The Bill of Rights (4)
- PSCI 530. Studies in Political Theory: Liberalism (4)

**D. American Literature (20 units)**

1. Four units chosen from: (Prerequisite to upper-division American Literature courses.)
  - ENG 301A. Analysis of Poetry (4)
  - ENG 302A. Analysis of Drama (4)
  - ENG 303A. Analysis of Prose Fiction (4)
  - ENG 304A. Analysis of Nonfiction Prose (4)
  - TA 302A. Analysis of Drama (4)
2. Twelve units in periods as follows:
  - ENG 325. American Literature I (4)
  - ENG 326. American Literature II (4)
 One other four-unit American Literature course as approved by the coordinator.
 

**Note:** At least four units on American minorities and/or women must be chosen from categories D3, E, or F below.
3. Four units of electives chosen from:
  - ENG 314. American Indian Literature (4)
  - ENG 322. Studies in Literary Themes, Genres, or Authors (with appropriate topic approved by an advisor) (4)
  - ENG 339. African American Literature (4)

**E. American Themes Elective (4 units)**

1. Four units chosen from group 1 or 2 below:
  1. Four additional upper-division units chosen from one of the groups in C1 or C2;
  2. Four units chosen from courses on American subjects in anthropology, economics, geography, history, philosophy, political science and sociology in consultation with an advisor.

**F. Capstone (4 units)**

1. Four units chosen from:
  - AMST 590. Special Topics in American Studies (4)
  - ENG 515. Senior Seminar in Literature (with appropriate topic approved by American Studies coordinator) (4)

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**COURSE OFFERINGS IN  
AMERICAN STUDIES (AMST)**

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**Upper Division**

**300. Introduction to American Studies**

Concepts and methods essential to an interdisciplinary approach to American literature and art in a historical context. (4 units)

**590. Special Topics in American Studies**

Advanced independent study of selected figures, themes, or periods in American literature and art in a historical context. May be repeated for credit as topics change. Prerequisites: AMST 300; ART 311; HUM 344; one of the following: ENG 325, 326 or 333; and consent of department. (4 units)

# ANTHROPOLOGY

## Department of Anthropology

Social and Behavioral Sciences Building, Room 327J  
(909) 537-5502 <http://anthropology.csusb.edu/>

### Bachelor of Arts

Anthropology

### Minor

Anthropology

### Certificate Programs

Applied Cultural Anthropology

Archaeology

Latin American Studies

Museum Studies

**FACULTY:** Russell Barber, Anne Bennett, Frances Berdan,  
Kathy Nadeau, Wesley Niewoehner, James Pierson (Emeritus),  
Peter Robertshaw (Chair)

The study of anthropology promotes an understanding of self and all humankind by exploring the human condition at all times and in all places. In the modern, world in which every society depends upon other societies, ignorance of the goals, values and ways of life of others may become a fear leading to discrimination and racism in the community or to war and oppression between nations. The challenges of desert life for the Australian Aborigine and the problems of contemporary ghetto existence are of equal interest to the anthropologist, and courses in these topics and world ethnography are offered by the Anthropology Department. Human physical and cultural evolution, the distribution and significance of cultural differences, the history and ecology of specific areas, and the role of language in culture are treated in courses in physical anthropology, cultural anthropology, archaeology and prehistory, and linguistics.

Participation in The California State University's International Programs is one way students can experience other cultures firsthand. For further information, see Page 20.

## B.A. IN ANTHROPOLOGY

### Requirements (62 units)

**Total units required for graduation: 180**

### Requirements for the B.A. in Anthropology:

1. ANTH 100. Introduction to Anthropology: Human Evolution (4)
2. ANTH 102. Introduction to Anthropology: Culture and Society (4)
3. ANTH 200. Biological Anthropology Laboratory (1)
4. ANTH 500. Great Ideas in Anthropology (4)
5. Archaeology  
Eight units chosen from:  
 ANTH 300. Archaeology (4)  
 ANTH 302. African Archaeology (4)  
 ANTH 303. Prehistory of the Middle East and Europe (4)  
 ANTH 305. North American Prehistory (4)  
 ANTH 306. Aztecs, Maya and Their Predecessors (4)  
 ANTH 307. Incas and Their Predecessors (4)  
 May choose only one of the following two courses:  
 ANTH 312. Historical Archaeology (4)  
 HIST 312. Historical Archaeology (4)  
 ANTH 315. Archaeology of the Southwest and California (4)

May choose only one of the following two courses:

- ANTH 323. Native North American Art (4)  
 ART 323. Native North American Art (4)

May choose only one of the following two courses:

- ANTH 324. Pre-Columbian Art (4)  
 ART 324. Pre-Columbian Art (4)

6. Biological Anthropology  
Eight units chosen from:  
 ANTH 325. Human Biological Variation and the Concept of Race (4)  
 ANTH 326. Human Origins (4)  
 ANTH 327. Primate Evolution and Ecology (4)  
 ANTH 328. Forensic Anthropology and Crime (4)
7. Laboratory Analysis  
Five units chosen from:  
 ANTH 319. Experimental Archaeology and Ethnoarchaeology (5)  
 ANTH 320. Archaeological Survey and Excavation (5)  
 ANTH 321. Archaeological Laboratory Analysis (5)  
 ANTH 322. Human Osteology and Functional Anatomy (5)
8. Anthropology culture areas  
Eight units chosen from:  
 ANTH 351. Indians of North America (4)  
 ANTH 352. Indians of the Southwest (4)  
 ANTH 354. Cultures of Mexico and Central America (4)  
 ANTH 356. Cultures of South America (4)  
 ANTH 357. African Societies (4)  
 ANTH 358. Peoples of the Middle East (4)  
 ANTH 360. Peoples of Australia (4)  
 ANTH 361. Peoples of Micronesia, Melanesia and Polynesia (4)  
 ANTH 362. Peoples of Asia (4)  
 ANTH 365. Asian American Cultures (4)
9. Anthropology theory  
Twelve units, of which at least eight units must be from 400-level courses, chosen from:  
 ANTH 330. Cross-Cultural Child-Rearing Practices (4)  
 ANTH 331. Anthropology of Human Development (4)  
 ANTH 332. Cross-Cultural Perspectives on Aging (4)  
 ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)  
 ANTH 334. Anthropology and Film (4)  
 ANTH 335. Cross-Cultural Perspectives on Crime and Deviance (4)  
 May choose only one of the following two courses:  
 ANTH 375. Museum Methods (4)  
 HIST 375. Museum Methods (4)  
 May choose only one of the following two courses:  
 ANTH 376. Exhibit Design (4)  
 HIST 376. Exhibit Design (4)  
 ANTH 466. Anthropology of Health, Illness and Healing (4)  
 ANTH 470. Culture Change and Dynamics (4)  
 ANTH 472. Colonial and Postcolonial Anthropology (4)  
 ANTH 475. Cultural Ecology (4)  
 ANTH 480. Magic, Religion and Science (4)  
 ANTH 485. Applied Anthropology and Social Policy (4)  
 ANTH 492. Economic Anthropology (4)  
 ANTH 493. Urban Anthropology (4)
10. Linguistic Anthropology  
Four units chosen from:  
 ANTH 380. Gender and Language (4)  
 ANTH 388. Language and Culture (4)
11. Four additional upper-division units in anthropology (may be from a related field, as approved by an advisor).

**MINOR IN ANTHROPOLOGY****Requirements (28 units)****Requirements for a minor in Anthropology:**

1. ANTH 100. Introduction to Anthropology: Human Evolution (4)
2. ANTH 102. Introduction to Anthropology: Culture and Society (4)
3. Twenty upper-division units chosen in consultation with an advisor.

**DEPARTMENTAL HONORS**

Students majoring in anthropology are eligible to receive honors in anthropology at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. A grade point average of at least 3.5 in the major, both at this university and overall;
3. An overall undergraduate grade point average of 3.0 ("B") or better;
4. Successful completion of ANTH 597. Senior Honors Project, resulting in a thesis paper.

Applications for candidacy must be made by the beginning of the senior year. Approval of candidacy and of the project and project advisor rests with the department. The project advisor and one other faculty reader from the department will have responsibility for evaluation of the completed thesis paper.

**CERTIFICATE PROGRAMS**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. See Page 58 for additional certificate information.

**Certificate in Applied Cultural Anthropology****Admission to the Certificate**

1. Consultation with a faculty advisor in anthropology is required before enrolling in upper-division courses.

**Certificate Requirements (32 units)**

1. ANTH 102. Introduction to Anthropology: Culture and Society (4)
2. A minimum of four units chosen from:  
ECON 250. Statistics for Economists (4)  
PSYC 210. Psychological Statistics (5)  
SCM 210. Applied Business Statistics (4)
3. ANTH 485. Applied Anthropology and Social Policy (4)
4. ANTH 578. Internship in Applied Anthropology (2-5) for a total of (8)
5. A minimum of twelve units of upper-division social and cultural anthropology courses chosen in consultation with an advisor.

**Certificate in Archaeology****Certificate Requirements (35 units)**

1. ANTH 300. Archaeology (4)
2. Five units chosen from:  
ANTH 320. Archaeological Survey and Excavation (5)  
ANTH 577. Internship in Archaeology (5)

3. Five units chosen from:  
ANTH 319. Experimental Archaeology and Ethnoarchaeology (5)  
ANTH 321. Archaeological Laboratory Analysis (5)
4. Eight units chosen from:  
ANTH 302. African Archaeology (4)  
ANTH 303. Prehistory of the Middle East and Europe (4)  
ANTH 305. North American Prehistory (4)  
ANTH 306. Aztecs, Maya and Their Predecessors (4)  
ANTH 307. Incas and Their Predecessors (4)  
May choose only one of the following two courses:  
ANTH 312. Historical Archaeology (4)  
HIST 312. Historical Archaeology (4)  
ANTH 315. Archaeology of the Southwest and California (4)
5. GEOG 201. Map Interpretation (4)
6. GEOG 202. Introduction to Geographic Information Systems and Mapping (5)
7. A minimum of four units chosen from:  
GEOG 306. Remote Sensing of Environment (4)  
GEOG 308. Advanced Geographic Information Systems (5)  
GEOG 403. Advanced Map Design (5)  
GEOG 480. Geomorphology (4)  
GEOL 301. Introduction to Geologic Mapping (4)  
GEOL 330. Sedimentary Petrology (5)  
GEOL 350. Paleontology (5)

**Certificate in Latin American Studies****Certificate Requirements (32 units)**

1. Thirty-two units chosen from the following: (No more than twelve units may be taken from any one discipline.)  
ANTH 306. Aztecs, Maya and Their Predecessors (4)  
ANTH 307. Incas and Their Predecessors (4)  
May choose only one of the following two courses:  
ANTH 324. Pre-Columbian Art (4)  
ART 324. Pre-Columbian Art (4)  
ANTH 354. Cultures of Mexico and Central America (4)  
ANTH 356. Cultures of South America (4)  
ART 328. Mexican Art (4)  
FLAN 320. Masterpieces of Literature (when topic pertains to Latin America) (4)  
GEOG 390. Selected Topics in Geography: Tropical Geography (4)  
HIST 390. History of Modern Mexico (4)  
HIST 469. Colonial Latin America (4)  
HIST 470. Modern Latin America (4)  
HUM 460. Cultural Studies (when topic pertains to Mexico or Latin America) (4)  
MUS 351. Latin American Music (4)  
SSCI 304. Contemporary Latin America (4)  
SPAN 440. Mexican Literature (4)

**Certificate in Museum Studies****Certificate Requirements (34 units)**

1. Four units chosen from:  
ANTH 375. Museum Methods (4)  
HIST 375. Museum Methods (4)
2. Four units chosen from:  
ANTH 376. Exhibit Design (4)  
HIST 376. Exhibit Design (4)
3. HIST 327. Museum and Archival Management (4)
4. ANTH 576. Internship in Museum Studies (2-5) for a total of (8)
5. ART 345. Gallery Management (2)



6. A minimum of twelve units of electives, chosen from one of the following three groups of courses (A, B or C):

**Group A**

- ANTH 300. Archaeology (4)  
ANTH 302. African Archaeology (4)  
ANTH 303. Prehistory of the Middle East and Europe (4)  
ANTH 305. North American Prehistory (4)  
ANTH 306. Aztecs, Maya and Their Predecessors (4)  
ANTH 307. Incas and Their Predecessors (4)  
May choose only one of the following two courses:  
ANTH 312. Historical Archaeology (4)  
HIST 312. Historical Archaeology (4)  
ANTH 315. Archaeology of the Southwest and California (4)  
ANTH 320. Archaeological Survey and Excavation (5)  
ANTH 321. Archaeological Laboratory Analysis (5)

May choose only one of the following two courses:

- ANTH 323. Native North American Art (4)  
ART 323. Native North American Art (4)

May choose only one of the following two courses:

- ANTH 324. Pre-Columbian Art (4)  
ART 324. Pre-Columbian Art (4)

**Group B**

- ANTH 351. Indians of North America (4)  
ANTH 352. Indians of the Southwest (4)  
ANTH 354. Cultures of Mexico and Central America (4)  
ANTH 357. African Societies (4)  
ANTH 358. Peoples of the Middle East (4)  
ANTH 360. Peoples of Australia (4)  
ANTH 361. Peoples of Micronesia, Melanesia and Polynesia (4)  
ANTH 362. Peoples of Asia (4)  
ANTH 365. Asian American Cultures (4)  
ART 221. Art History: Prehistoric Times through the Middle Ages (4)  
ART 222. Art History: Africa, Asia, the Americas and Oceania (4)  
ART 223. Art History: Renaissance to the Present (4)  
ART 306. Greek and Roman Art (4)  
ART 311. Art of the United States to the End of the Nineteenth Century (4)  
ART 314. The Art of Indigenous Peoples (4)  
ART 316. Arts of the Ancient Near East and Egypt (4)  
ART 321. Renaissance Art (4)

May choose only one of the following two courses:

- ANTH 323. Native North American Art (4)  
ART 323. Native North American Art (4)

May choose only one of the following two courses:

- ANTH 324. Pre-Columbian Art (4)  
ART 324. Pre-Columbian Art (4)

- ART 327. Baroque and Rococo Art (4)  
ART 328. Mexican Art (4)  
ART 329. Chicano Art (4)

**Group C**

- ART 410. Studies in Art History: Renaissance (4)  
ART 423. Nineteenth Century European Art (4)  
Any upper-division history course except HIST 327, 375, 376, 395, 396, 399, 575, 589 and 595.

## COURSE OFFERINGS IN ANTHROPOLOGY (ANTH)

### Lower Division

#### 100. Introduction to Anthropology: Human Evolution

Human biological and social evolution through time. (GE=D4) (ANTH 100=CAN ANTH 2) (4 units)

#### 102. Introduction to Anthropology: Culture and Society

Structure and dynamics of human cultural experience; comparative analysis of language, religion, economic patterns and social and political organization in traditional and complex societies. (GE=D4) (ANTH 102=CAN ANTH 4) (4 units)

#### 140. World Civilizations I, the Rise of Civilization

Activities and achievements of humans through the rise and diffusion of civilizations in Eurasia, Africa, and the Americas to about the dawn of the Christian era. (Also offered as HIST 140. Students may not receive credit for both.) (GE=D3) (4 units)

#### 200. Biological Anthropology Laboratory

Human skeletal anatomy and skeletal biology (osteology and a forensics), reviews of the fossil evidence for primate and human evolution, and exercises in genetics. Three hours laboratory. Prerequisite or corequisite: ANTH 100. (1 unit)

### Upper Division

#### 300. Archaeology

History of archaeological research, a survey of concepts and methods for the study of prehistoric culture and a summary of major sequences in prehistory. (4 units)

#### 302. African Archaeology

Africa's past from the beginnings of humankind to the period of European contact. An examination of Africa's foremost role in the origins of culture and of anatomically modern humans, as well as the development of African civilizations. (4 units)

#### 303. Prehistory of the Middle East and Europe

A survey of prehistory spanning the spread of people into the Middle East and Europe, the development of agriculture and the origins and growth of the earliest civilizations. (4 units)

#### 305. North American Prehistory

Prehistory of North America from earliest times to the dawn of historic contact with the Old World after 1492. (4 units)

#### 306. Aztecs, Maya and Their Predecessors

The origin, spread and decline of pre-Columbian civilizations in Mexico and adjacent areas. (4 units)

#### 307. Incas and Their Predecessors

The origin, spread and decline of pre-Columbian civilizations in Peru and adjacent areas. (4 units)

#### 312. Historical Archaeology

Use of archaeological methods to study historic peoples. Historical and archaeological methods and their results. Focus primarily on North America from A.D. 1492 to modern times. (Also offered as HIST 312. Students may not receive credit for both.) (4 units)

**315. Archaeology of the Southwest and California**

The prehistoric cultures of California and the American Southwest, their origins, characteristics and relationships. (4 units)

**319. Experimental Archaeology and Ethnoarchaeology**

Experimental and observational techniques that are important in reconstructing the past. This course has a practical/laboratory component that will assist students in understanding aspects of prehistoric technology and the formation of the archaeological record. Four hours lecture and three hours laboratory. Prerequisite: consent of instructor. (5 units)

**320. Archaeological Survey and Excavation**

Examines techniques and methods used to recover archaeological remains and information. Stresses the importance of research design and its relationship to methodology. Active participation in a field project under the direction of the instructor. Ten hours activity. (5 units)

**321. Archaeological Laboratory Analysis**

Examines techniques and methods used to analyze archaeological remains in the laboratory. Active participation in various laboratory projects under the direction of the instructor. Four hours lecture and three hours laboratory. (5 units)

**322. Human Osteology and Functional Anatomy**

The identification of human skeletal materials and an introduction to the relationship between form and function in the human skeleton. Four hours lecture and three hours laboratory. (5 units)

**323. Native North American Art**

Art of American Indian and Eskimo peoples north of Mexico, from earliest prehistory to modern times. (Also offered as ART 323. Students may not receive credit for both.) (4 units)

**324. Pre-Columbian Art**

Art and architecture of pre-Columbian cultures with an emphasis on Mexico and Peru. (Also offered as ART 324. Students may not receive credit for both.) (4 units)

**325. Human Biological Variation and the Concept of Race**

An inquiry into past and present interpretations of the significance of human physical differences. (GE=G2) (4 units)

**326. Human Origins**

The archaeological, anatomical and other evidence for human origins examined within their geological and environmental contexts. Discussion of theories that attempt to explain how we became human. Prerequisite: ANTH 100. (4 units)

**327. Primate Evolution and Ecology**

A comparative study of our closest relatives (the apes, monkeys and other primates): their evolution, ecology, behavior, social organization and means of communication. One-day zoo trip required. (4 units)

**328. Forensic Anthropology and Crime**

Techniques of biological anthropology as applied to the investigation of crime. (4 units)

**330. Cross-Cultural Child-Rearing Practices**

Crosscultural examination of child-rearing practices from the perspective of major anthropological theories of personality formation and its relationship with culture. (4 units)

**331. Anthropology of Human Development**

A cross-cultural perspective on human development and the processes of personality formation and cultural transmission. (4 units)

**332. Cross-Cultural Perspectives on Aging**

A cross-cultural examination of aging and the roles, statuses, opportunities, and treatment of the aged, with an emphasis on non-Western societies. (4 units)

**333. Sex and Gender in Cross-Cultural Perspective**

Examination and analysis of the changing position of women in selected societies around the world, including consideration of the sexual division of labor, marriage systems, male-female relations, and systems of myth and ideology concerning gender roles. (GE=G2) (4 units)

**334. Anthropology and Film**

Examines feature film from an anthropological perspective, and includes both domestic and international cinema. Topics may include the representation of indigenous peoples; the political-economic structures and social barriers negotiated in producing certain films; Orientalism in Western cinema; and regional cinemas. Formerly a topic under ANTH 390. (4 units)

**335. Cross-Cultural Perspectives on Crime and Deviance**

Crosscultural examination of behavior regulation in human societies. Specific topics include cultural definition of crime and deviance, conflict resolution, processes of control and the distribution of authority and power. A self-paced version of this course (ANTH 335S) is also available. Students may not receive credit for both. (4 units)

**351-362. World Cultures**

Emphasis in the following courses is on major problems of current interest to the cultural anthropologist. Topics include general discussion of physical anthropology, language affiliations and culture, history of the area, the native populations, their relations with each other and to outside societies, and the effects of culture change upon them through time.

**351. Indians of North America (4 units)****352. Indians of the Southwest (4 units)****354. Cultures of Mexico and Central America (4 units)****356. Cultures of South America (4 units)****357. African Societies (4 units)****358. Peoples of the Middle East (4 units)****360. Peoples of Australia (4 units)****361. Peoples of Micronesia, Melanesia and Polynesia (4 units)****362. Peoples of Asia (4 units)****365. Asian American Cultures**

Asian American cultural identity issues and concerns such as stereotyping, race issues, and the diverse ways in which Asian Americans retain, modify and reinvent Asian cultural traditions in American society. (4 units)

**366. Filipino Cultural Expressions**

Filipino American experiences expressed through arts and dance rituals and their culture. May be repeated for credit as topics change for a maximum of eight units. One hour lecture and two hours activity. Graded credit/no credit. (2 units)

**375. Museum Methods**

Introduction to the techniques of museum work, and to the history, theory and practice of museums. Includes curatorial methods, and the care, preservation, storage and exhibition of museum specimens. (Also offered as HIST 375. Students may not receive credit for both.) (4 units)

**376. Exhibit Design**

Examination of the theories and methods used in designing exhibits for museums, libraries, and historic houses, focusing on interpretation and exhibit creation. Some exhibits may be implemented in the Anthropology Museum. (Also offered as HIST 376. Students may not receive credit for both.) Field trips and completion of an exhibition brief are required. Prerequisite: consent of instructor. (4 units)

**380. Gender and Language**

Examines the role of language in the cultural construction of gender ideology, identities, and relations from both U.S. and cross-cultural contexts. Lexical, conversational, discursive, and narrative approaches are used. Formerly a topic under ANTH 390. (4 units)

**388. Language and Culture**

Analysis of languages stressing the relationship of language to patterns of human behavior. Formerly ANTH 460. (4 units)

**390. Selected Topics in Anthropology**

An anthropological examination of a selected topic. May be repeated for credit as topics change. (4 units)

**391. Selected Topics in Anthropology**

An anthropological examination of a selected topic. May be repeated for credit as topics change. (2 units)

**466. Anthropology of Health, Illness and Healing**

An anthropological examination of the varying cultural definitions, explanations and experiences of illness and health in a variety of cultures. Strategies which societies have developed to cope with disease and misfortune are investigated, including such things as shamanism and folk medicine. (4 units)

**470. Culture Change and Dynamics**

An examination and evaluation of the various theories that have been proposed to explain societal change using actual case study materials. (4 units)

**472. Colonial and Postcolonial Anthropology**

Historical examination of the ways in which colonial anthropology has been connected to the European understanding of non-European cultures and societies. Analysis of the contributions of contemporary anthropology to postcolonial discourses. (4 units)

**475. Cultural Ecology**

An examination of theories, methods and applications of the ecological perspective in the anthropological study of human cultures, and a cross-cultural comparison of adaptations to different ecological niches. (4 units)

**480. Magic, Religion and Science**

A comparative study of the widely varied attempts by members of human societies to order, control and make predictions about their physical and social environments. (4 units)

**485. Applied Anthropology and Social Policy**

Use of anthropological knowledge and methods in solving social problems in institutional, national and international settings. Includes consideration of policy-making, funding, sponsorship, establishing goals, project implementation, popular participation, ethics, evaluation and reporting. (4 units)

**492. Economic Anthropology**

An anthropological approach to the analysis of systems of production and exchange in nonindustrial societies. (4 units)

**493. Urban Anthropology**

Utilization of ethnographic and cross-cultural materials in an examination of anthropological concepts and methods for the study of urban environments and the processes of urbanization. (4 units)

**500. Great Ideas in Anthropology**

Major anthropological theories as applied to a topical area of anthropological study, such as human settlements, migrations, or innovation. Perspectives from cultural anthropology, archaeology, bioanthropology and linguistics will be discussed. Prerequisite: consent of instructor. (4 units)

**575. Internship in Anthropology**

Supervised work in public or private organizations emphasizing practical applications of anthropological concepts. May be repeated for credit for a total of 10 units. Graded credit/no credit. Prerequisites: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken. (2-5 units)

**576. Internship in Museum Studies**

Supervised work in public or private museums emphasizing practical applications of knowledge acquired in the classroom. May be repeated for credit for a total of 10 units. Graded credit/no credit. Prerequisites: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken. (2-5 units)

**577. Internship in Archaeology**

Supervised fieldwork or laboratory analysis in archaeology in public or private organizations emphasizing practical applications of archaeological theories and methods. May be repeated for credit for a total of 10 units. Graded credit/no credit. Prerequisites: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken. (2-5 units)

**578. Internship in Applied Cultural Anthropology**

Supervised work in any field where students may apply social and cultural anthropological knowledge to work situations. May be repeated for credit for a total of 10 units. Graded credit/no credit. Prerequisites: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken. (2-5 units)

**585. Fieldwork in Cultural Anthropology**

Supervised design, execution and analysis of an individualized ethnographic field project. Prerequisite: consent of instructor. (4 units)

**590. Selected Topics in Anthropology**

An anthropological examination of a selected topic. May be repeated for credit as topics change. (4 units)

**90 / Anthropology**

**591. Selected Topics in Anthropology**

An anthropological examination of a selected topic. May be repeated for credit as topics change. (2 units)

**595. Independent Study**

Special topics involving library and/or field research. A total of eight units in ANTH 595 may be applied toward graduation. Only four of those units may be applied to the major. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (2-5 units)

**597. Senior Honors Project**

Original research in an area of anthropological studies, culminating in a major research report receiving approval of the anthropology faculty. Enrollment limited to students whose formal application for departmental honors is approved. (5 units)

**Graduate level courses can be found on Page 356.**



# ARABIC

## Department of World Languages and Literatures

University Hall, Room 314  
(909) 537-5847 <http://flan.csusb.edu>

### Minor

Arabic

### Certificate

Arabic

**Coordinator:** Dany Doueiri

## MINOR IN ARABIC

### Requirements (32 units)

#### Requirements for a minor in Arabic:

1. Proficiency in Arabic equal to ARAB 150 or equivalent.  
Entering students with previous training in Arabic or those who are native speakers should contact the Department of World Languages and Literatures or the Arabic program coordinator for information about placement and credit by examination. Students with no prior exposure to Arabic need to take ARAB 101, 102 and 150 which will not count toward the 32-unit requirement for the minor.

#### Lower-division requirements (12 units)

1. Twelve units chosen from:
  - ARAB 201. Intermediate Arabic I (4)
  - ARAB 202. Intermediate Arabic II (4)
  - ARAB 203. Intermediate Arabic III (4)
  - ARAB 212. Arabic Composition (4)
  - ARAB 214. Conversation in Arabic (4)
  - ARAB 216. Introduction to Arabic Literary Texts (4)
  - ARAB 290. Arabic Literature in Translation (4)

#### Upper-division requirements (20 units)

1. Twelve units chosen from:
  - ARAB 301. Advanced Arabic I (4)
  - ARAB 302. Advanced Arabic II (4)
  - ARAB 303. Advanced Arabic III (4)
  - ARAB 312. Advanced Arabic Composition (4)
  - ARAB 316. Arabic for the Professions (4)
  - ARAB 370. Arabic Film and Culture (4)
  - ARAB 399. Community Service Project (2)
2. Eight units chosen from:
  - ANTH 358. People of the Middle East (4)
  - May choose only one of the following three courses:
    - ANTH 590. Selected Topics in Anthropology: Muslim Women in Media and Society (4)
    - COMM 365. Topics in Mass Communication: Muslim Women in Media and Society (4)
    - WSTD 390. Topics in Women's Studies: Muslim Women in Media and Society (4)
  - ENG 319. Studies in Literary Diversity (when the topic is Middle Eastern Literatures) (4)
  - HIST 384. Modern Middle East (4)
  - HUM 375. World of Islam (4)
  - PSCI 308. Government and Politics in the Middle East (4)
  - SSCI 515. Model United Nations (if Arab country is selected) (4)
  - SSCI 516. Model Arab League (4)
  - Other courses related to the Arab world, to be approved in advance by the Arabic program coordinator.

## CERTIFICATE IN ARABIC

### Requirements (32 units)

#### Requirements for a certificate in Arabic:

1. Proficiency in Arabic equal to ARAB 150 or equivalent.  
Entering students with previous training in Arabic or those who are native speakers should contact the Department of World Languages and Literatures or the Arabic program coordinator for information about placement and credit by examination. Students with no prior exposure to Arabic need to take ARAB 101, 102 and 150 which will not count toward the 32-unit requirement for the certificate.

#### Lower-division requirements (12 units)

1. Twelve units chosen from:
  - ARAB 201. Intermediate Arabic I (4)
  - ARAB 202. Intermediate Arabic II (4)
  - ARAB 203. Intermediate Arabic III (4)
  - ARAB 212. Arabic Composition (4)
  - ARAB 214. Conversation in Arabic (4)
  - ARAB 216. Introduction to Arabic Literary Texts (4)
  - ARAB 290. Arabic Literature in Translation (4)

#### Upper-division requirements (20 units)

1. Twelve units chosen from:
  - ARAB 301. Advanced Arabic I (4)
  - ARAB 302. Advanced Arabic II (4)
  - ARAB 303. Advanced Arabic III (4)
  - ARAB 312. Advanced Arabic Composition (4)
  - ARAB 316. Arabic for the Professions (4)
  - ARAB 370. Arabic Film and Culture (4)
  - ARAB 399. Community Service Project (2)
2. Eight units chosen from:
  - ANTH 358. People of the Middle East (4)
  - May choose only one of the following three courses:
    - ANTH 590. Selected Topics in Anthropology: Muslim Women in Media and Society (4)
    - COMM 365. Topics in Mass Communication: Muslim Women in Media and Society (4)
    - WSTD 390. Topics in Women's Studies: Muslim Women in Media and Society (4)
  - ENG 319. Studies in Literary Diversity (when the topic is Middle Eastern Literatures) (4)
  - HIST 384. Modern Middle East (4)
  - HUM 375. World of Islam (4)
  - PSCI 308. Government and Politics in the Middle East (4)
  - SSCI 515. Model United Nations (if Arab country is selected) (4)
  - SSCI 516. Model Arab League (4)
  - Other courses related to the Arab world, to be approved in advance by the Arabic program coordinator.

## COURSE OFFERINGS IN

### ARABIC (ARAB)

#### Lower Division

##### 101. College Arabic I

Introduction to Arabic including fundamentals of grammatical structure, pronunciation and culture. Formerly a topic under FLAN 101. (4 units)

##### 102. College Arabic II

Further study of the fundamentals of grammatical structure, pronunciation and culture. Emphasis in oral communication, reading and writing. Formerly a topic under FLAN 102. Prerequisite: ARAB 101 or equivalent. (GE=C3) (4 units)

**150. College Arabic III**

Emphasis on oral and writing competencies at the intermediate level in a cultural context. Formerly a topic under FLAN 150. Prerequisite: ARAB 102. (GE=C3) (4 units)

**201. Intermediate Arabic I**

First course in an intermediate-level sequence in Arabic. Develops students' oral and written Arabic language skills, as well as knowledge of Arabic-speaking cultures. Prerequisite: ARAB 150 or equivalent. (4 units)

**202. Intermediate Arabic II**

Second course in an intermediate-level sequence in Arabic. Develops students' oral and written Arabic language skills, as well as knowledge of Arabic-speaking cultures. Prerequisite: ARAB 201 or equivalent. (4 units)

**203. Intermediate Arabic III**

Third course in an intermediate-level sequence in Arabic. Develops students' oral and written Arabic language skills, as well as knowledge of Arabic-speaking cultures. Prerequisite: ARAB 202 or equivalent. (4 units)

**212. Arabic Composition**

Comprehensive review of the principles of Arabic grammar, emphasizing their application to composition. Prerequisite: ARAB 150 or equivalent. (4 units)

**214. Conversation in Arabic**

Practice of oral Arabic including current topics, panel discussions, debates, and oral presentations. Students will become familiar with day-to-day social and business expressions. Prerequisite: ARAB 150 or equivalent. (GE=C3) (4 units)

**216. Introduction to Arabic Literary Text**

Techniques of literary study and analysis through readings from various Arab-speaking cultures. Emphasis on vocabulary development, expression and written comprehension. Prerequisite: ARAB 150 or equivalent. (4 units)

**290. Arabic Literature in Translation**

Introduction to Arabic literature in English translation. (GE=C3) (4 units)

**Upper Division****301. Advanced Arabic I**

First course in an upper-level sequence in Arabic. Develops students' oral and written Arabic language skills, as well as knowledge of Arabic-speaking cultures. Prerequisite: ARAB 203 or equivalent. (4 units)

**302. Advanced Arabic II**

Second course in an upper-level sequence in Arabic. Develops students' oral and written Arabic language skills, as well as knowledge of Arabic-speaking cultures. Prerequisite: ARAB 301 or equivalent. (4 units)

**303. Advanced Arabic III**

Third course in an upper-level sequence in Arabic. Develops students' oral and written Arabic language skills, as well as knowledge of Arabic-speaking cultures. Prerequisite: ARAB 302 or equivalent. (4 units)

**312. Advanced Arabic Composition**

Practice in composition and short essay writing with emphasis on the development of good writing style and expressive vocabulary. Prerequisites: ARAB 212 or consent of instructor. (4 units)

**316. Arabic for the Professions**

Oral and written practice in Arabic terminology used in various professions, with emphasis on cultural context. (4 units)

**370. Arabic Film and Culture**

Analysis and historical examination of Arabic cultures, literatures, and themes through Arabic-language films. (4 units)

**399. Community Service Project**

Credit for applying previously learned skills in the area of Arabic to academically related tasks in such agencies as governmental, social service, and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of department. (1-2 units)

# ART

Accredited by the National Association of Schools of Art and Design

## Department of Art

Visual Arts Center, Room 105  
(909) 537-5802 <http://art.csusb.edu/>

### Bachelor of Arts

- Art - Plan I (Art Education)
- Art - Plan II (Studio Art)
- Art - Plan III (Art History)
- Art - Plan IV (Graphic Design)
- Art - Plan V (Graphic Design and Marketing)

### Teaching Credential Program

- Art - Plan I (Art Education)

### Minor

- Art History
- Film Studies (See page 182)
- Graphic Design: Print
- Graphic Design: Web
- Studio Art

### Certificate Program

- Business Skills for the Artist

### Master of Art

- Art
- Art Education
- (Degree requirements can be found on Page 357.)

**FACULTY:** Pearlie Rose Baluyut, Kurt Collins, Katherine Gray, Jiong Li, Richard Johnston, Sant Khalsa (Chair), George McGinnis, Thomas McGovern, Alison Petty, Billie Sessions, Brad Spence, Beth Steffel

The challenge for visual artists is to discover what is already there, to open up and probe what is inside and outside themselves and to find a means of giving it back to the whole world. It is this adventure which is the focus of the Department of Art.

A student may either major or minor in art, and eventually choose one or more specific areas of concentration. The choice is governed by the student's experiences with various media, concepts and techniques, but this is not a rigid choice as new interactions among these elements are constantly being developed.

Five plans are available for students working for the Bachelor of Arts in Art and four options are available for a minor in art. The areas of concentration currently offered are: art history, art education, ceramics, glass, graphic design, graphic design and marketing, painting and drawing, photography, printmaking, sculpture, and woodworking and furniture design.

Each program provides a strong foundation in art history, theory and practice with the specialized instruction and experience necessary to be competitive and successful in a wide range of fields in art and design.

Five-unit studio courses meet for eight scheduled hours per week and require an additional seven hours per week to be arranged on an individual basis. Field trips are required in most art history courses and several studio courses as well. Also, there are materials fees in every art course.

## B.A. IN ART - PLAN I (Art Education)

### Requirements (92 units)

#### Total units required for graduation: 180

This program is designed for students seeking a liberal education with an emphasis in art, and is recommended for those who wish to receive teaching credentials in art.

### Requirements for the B.A. in Art - Plan I:

Lower-division requirements (11 courses totalling 48 units)

1. ART 120. Introduction to Two Dimensional Design (4)
2. ART 121. Introduction to Three Dimensional Design (4)
3. ART 122. Introduction to Drawing and Life Drawing (4)
4. ART 123. Introduction to Art and Technology (4)
5. ART 221. Art History: Prehistoric Times through the Middle Ages (4)
6. ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
7. ART 223. Art History: Renaissance to the Present (4)
8. Choose four of the five courses for a total of 20 units:
  - ART 235. Painting I (5)
  - ART 240. Sculpture I (5)
  - ART 254. Ceramics I (5)
  - ART 260. Printmaking I (5)
  - ART 290. Photography I (5)

Upper-division requirements (44 units)

1. History of Art  
Eight units consisting of one four-unit course chosen from each of the following (A and B):
  - A. ART 420. Art from 1900 to the Present (4)
  - ART 520. Contemporary Art, Theory and Criticism (4)
  - B. ART 305. Women and Art (4)
  - ART 306. Greek and Roman Art (4)
  - ART 323. Native North American Art (4)
  - ART 324. Pre-Columbian Art (4)
  - ART 328. Mexican Art (4)
  - ART 329. Chicano Art (4)
  - ART 420. Art from 1900 to the Present (4) (if not taken in Category A above)
  - ART 520. Contemporary Art, Theory and Criticism (4) (if not taken in Category A above)
2. Three five-unit courses chosen from at least two of the following specializations: (Note: Check course descriptions to ascertain which courses may be repeated for credit. Some courses listed require lower division prerequisites.)

#### Ceramics

- ART 355. Ceramics II (5)
- ART 357. Ceramics III (5)

#### Graphic Design

- ART 320. Digital Image Editing (5)
- ART 322. Web Design (5)
- ART 325. Advanced Digital Image Editing (5)

#### New Genres

- ART 387. Video Art (5)
- ART 396. New Genres (5)
- ART 441. Public Art (5)

#### Painting

- ART 304. Advanced Drawing and Life Drawing (5)
- ART 335. Intermediate Painting (5)
- ART 336. Advanced Painting (5)

#### Photography

- ART 386. Digital Photography (5)
- ART 391. Photography II (5)
- ART 394. Color Photography (5)

ART 398. Documentary Photography (5)

ART 492. Advanced Photography (5)

**Printmaking**

ART 361. Printmaking II (5)

ART 362. Printmaking III (5)

**Sculpture**

ART 341. Advanced Sculpture (5)

3. ART 415. Senior Seminar: Art and Society (2)

4. ART 416. Senior Project (2)

5. Art Education

Four courses totalling 17 units as follows:

ART 399. Art Education: History, Philosophy and Theory (4)

ART 496. Art Education: Social and Cultural Frameworks (4)

ART 497. Art Education: Issues in Studio Practice (4)

ART 498. Art Education: Digital Technology (5)

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**B.A. IN ART - PLAN II (Specializations in Ceramics, Glass, Painting, Photography, Printmaking, Sculpture, Wood and Furniture Design)****Requirements (90 units)****Woodworking (85 units)****Total units required for graduation: 180**

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This program is designed for the student with a strong professional interest in art who may wish to pursue graduate studies.

**Requirements for the B.A. in Art - Plan II:**

Lower-division requirements (8 core courses totalling 33 units, woodworking specialization, 28 units)

1. ART 120. Introduction to Two Dimensional Design (4)
2. ART 121. Introduction to Three Dimensional Design (4)
3. ART 122. Introduction to Drawing and Life Drawing (4)
4. ART 123. Introduction to Art and Technology (4)
5. ART 221. Art History: Prehistoric Times through the Middle Ages (4)
6. ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
7. ART 223. Art History: Renaissance to the Present (4)
8. Five units chosen in the area of specialization:
  - ART 235. Painting I (5)
  - ART 240. Sculpture I (5)
  - ART 254. Ceramics I (5)
  - ART 260. Printmaking I (5)
  - ART 270. Glass I: Beginning Glassblowing (5)
  - ART 290. Photography I (5)

Upper-division requirements (42 units) including two art history courses, six studio courses in area of concentration, and two capstone courses

## 1. History of Art

Eight units consisting of one four-unit course chosen from each of the following (A and B):

- A. ART 420. Art from 1900 to the Present (4)
- ART 520. Contemporary Art, Theory and Criticism (4)
- B. ART 305. Women and Art (4)
- ART 306. Greek and Roman Art (4)
- ART 310. Asian Art (4)
- ART 311. Art of the United States to the End of the Nineteenth Century (4)
- ART 314. The Art of Indigenous Peoples (4)
- ART 316. Arts of the Ancient Near East and Egypt (4)
- ART 321. Renaissance Art (4)
- ART 323. Native North American Art (4)

ART 324. Pre-Columbian Art (4)

ART 327. Baroque and Rococo Art (4)

ART 328. Mexican Art (4)

ART 329. Chicano Art (4)

ART 333. History of Graphic Design (4)

ART 359. History of Photography (4)

ART 410. Studies in Art History (4)

ART 420. Art from 1900 to the Present (4) (if not taken in Category A above)

ART 423. Nineteenth Century European Art (4)

ART 520. Contemporary Art, Theory and Criticism (4) (if not taken in Category A above)

ART 525. Seminar in Art History (4)

## 2. Studio courses in a single area of specialization

Six five-unit courses chosen from one of the following specializations: (Note: Check course descriptions to ascertain which courses may be repeated for credit.)

**Ceramics**

ART 355. Ceramics II (5)

ART 357. Ceramics III (5)

ART 396. New Genres (5)

ART 441. Public Art (5)

**Glass**

ART 370. Glass II: Advanced Beginning Glassblowing (5)

ART 371. Glass Coldworking (5)

ART 372. Glass Kilnforming and Kilncasting (5)

ART 396. New Genres (5)

ART 441. Public Art (5)

ART 470. Glass III: Intermediate Glassblowing (5)

ART 471. Glass IV: Advanced Glassblowing (5)

**Painting**

ART 304. Advanced Drawing and Life Drawing (5)

ART 335. Intermediate Painting (5)

ART 336. Advanced Painting (5)

ART 396. New Genres (5)

ART 441. Public Art (5)

**Photography**

ART 386. Digital Photography (5)

ART 391. Photography II (5)

ART 393. Studio Photography (5)

ART 394. Color Photography (5)

ART 396. New Genres (5)

ART 398. Documentary Photography (5)

ART 441. Public Art (5)

ART 492. Advanced Photography (5)

**Printmaking**

ART 313. Printing Production (5)

ART 361. Printmaking II (5)

ART 362. Printmaking III (5)

ART 441. Public Art (5)

**Sculpture**

ART 341. Advanced Sculpture (5)

ART 396. New Genres (5)

ART 441. Public Art (5)

**Woodworking**

ART 368. Woodworking and Furniture Design I (5)

ART 369. Advanced Woodworking and Furniture Design (5)

ART 441. Public Art (5)

3. ART 415. Senior Seminar: Art and Society (2)

4. ART 416. Senior Project (2)

## Studio Electives (15 units)

1. Three studio courses (totalling 15 units) from at least two different areas other than the concentration, with a minimum of one course at the 300- or 400-level, chosen from:

ART 235. Painting I (5)



- ART 240. Sculpture I (5)  
 ART 254. Ceramics I (5)  
 ART 260. Printmaking I (5)  
 ART 270. Glass I: Beginning Glassblowing (5)  
 ART 290. Photography I (5)  
 ART 304. Advanced Drawing and Life Drawing (5)  
 ART 313. Printing Production (5)  
 ART 320. Digital Image Editing (5)  
 ART 322. Web Design (5)  
 ART 325. Advanced Digital Image Editing (5)  
 ART 326. Interactive Multimedia Design (5)  
 ART 335. Intermediate Painting (5)  
 ART 336. Advanced Painting (5)  
 ART 341. Advanced Sculpture (5)  
 ART 355. Ceramics II (5)  
 ART 357. Ceramics III (5)  
 ART 361. Printmaking II (5)  
 ART 362. Printmaking III (5)  
 ART 368. Woodworking and Furniture Design I (5)  
 ART 369. Advanced Woodworking and Furniture Design (5)  
 ART 370. Glass II: Advanced Beginning Glassblowing (5)  
 ART 371. Glass Coldworking (5)  
 ART 372. Glass Kilnforming and Kilncasting (5)  
 ART 386. Digital Photography (5)  
 ART 387. Video Art (5)  
 ART 391. Photography II (5)  
 ART 393. Studio Photography (5)  
 ART 394. Color Photography (5)  
 ART 396. New Genres (5) if not taken in area of specialization  
 ART 398. Documentary Photography (5)  
 ART 470. Glass III: Intermediate Glassblowing (5)  
 ART 492. Advanced Photography (5)

## **B.A. IN ART - PLAN III (Art History)**

### **Requirements (82 units)**

#### **Total units required for graduation: 180**

This program is designed for the student with a strong professional interest in art history or museum work who may wish to pursue graduate studies.

### **Requirements for the B.A. in Art - Plan III:**

Lower-division requirements (seven courses totalling 28 units)

- ART 120. Introduction to Two Dimensional Design (4)
- ART 121. Introduction to Three Dimensional Design (4)
- ART 122. Introduction to Drawing and Life Drawing (4)
- ART 123. Introduction to Art and Technology (4)
- ART 221. Art History: Prehistoric Times through the Middle Ages (4)
- ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
- ART 223. Art History: Renaissance to the Present (4)

Upper-division requirements (42 units)

- History of Art  
 Six courses consisting of two four-unit courses chosen from each of the following three groups (A, B and C). ART 410 may be credited where applicable with the consent of the chair of the Art Department.
  - ART 305. Women and Art (4)
  - ART 306. Greek and Roman Art (4)
  - ART 316. Arts of the Ancient Near East and Egypt (4)
  - ART 321. Renaissance Art (4)
  - ART 327. Baroque and Rococo Art (4)

- ART 311. Art of the United States to the End of the Nineteenth Century (4)
  - ART 333. History of Graphic Design (4)
  - ART 359. History of Photography (4)
  - ART 420. Art from 1900 to the Present (4)
  - ART 423. Nineteenth Century European Art (4)
  - ART 520. Contemporary Art, Theory and Criticism (4)
- ART 310. Asian Art (4)
  - ART 314. The Art of Indigenous Peoples (4)
  - ART 323. Native North American Art (4)
  - ART 324. Pre-Columbian Art (4)
  - ART 328. Mexican Art (4)
  - ART 329. Chicano Art (4)

- Upper-division studio art courses (Note: Some courses listed require lower division prerequisites.)

Two five-unit courses chosen from:

- ART 304. Advanced Drawing and Life Drawing (5)
  - ART 313. Printing Production (5)
  - ART 320. Digital Image Editing (5)
  - ART 322. Web Design (5)
  - ART 325. Advanced Digital Image Editing (5)
  - ART 326. Interactive Multimedia Design (5)
  - ART 330. Animation and Web Motion-Graphics (5)
  - ART 335. Intermediate Painting (5)
  - ART 336. Advanced Painting (5)
  - ART 341. Advanced Sculpture (5)
  - ART 355. Ceramics II (5)
  - ART 357. Ceramics III (5)
  - ART 361. Printmaking II (5)
  - ART 362. Printmaking III (5)
  - ART 368. Woodworking and Furniture Design I (5)
  - ART 369. Advanced Woodworking and Furniture Design (5)
  - ART 370. Glass II: Advanced Beginning Glassblowing (5)
  - ART 371. Glass Coldworking (5)
  - ART 372. Glass Kilnforming and Kilncasting (5)
  - ART 386. Digital Photography (5)
  - ART 387. Video Art (5)
  - ART 391. Photography II (5)
  - ART 393. Studio Photography (5)
  - ART 394. Color Photography (5)
  - ART 396. New Genres (5)
  - ART 398. Documentary Photography (5)
  - ART 441. Public Art (5)
  - ART 470. Glass III: Intermediate Glassblowing (5)
  - ART 492. Advanced Photography (5)
- ART 415. Senior Seminar: Art and Society (2)
  - ART 416. Senior Project (2)
  - ART 525. Seminar in Art History (4)

Foreign language requirement (12 units)

- Twelve units or three quarters of one foreign language or equivalent proficiency. (Students are strongly advised to learn French and German.)

## **B.A. IN ART - PLAN IV (Graphic Design)**

### **Requirements (85 units)**

#### **Total units required for graduation: 180**

This program is designed for students with a strong professional interest in graphic design for electronic and print media.

### **Requirements for the B.A. in Art - Plan IV:**

Lower-division requirements (nine courses totalling 36 units)

- ART 120. Introduction to Two Dimensional Design (4)
- ART 121. Introduction to Three Dimensional Design (4)
- ART 122. Introduction to Drawing and Life Drawing (4)

4. ART 123. Introduction to Art and Technology (4)
5. ART 221. Art History: Prehistoric Times through the Middle Ages (4)
6. ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
7. ART 223. Art History: Renaissance to the Present (4)
8. ART 232. Principles of Design Management (4)
9. ART 238. Production of Visual Information Design (4)

Upper-division requirements (49 units)

1. Art history  
Four units chosen from:  
ART 305. Women and Art (4)  
ART 306. Greek and Roman Art (4)  
ART 310. Asian Art (4)  
ART 311. Art of the United States to the End of the Nineteenth Century (4)  
  
ART 314. The Art of Indigenous Peoples (4)  
ART 316. Arts of the Ancient Near East and Egypt (4)  
ART 321. Renaissance Art (4)  
ART 323. Native North American Art (4)  
ART 324. Pre-Columbian Art (4)  
ART 327. Baroque and Rococo Art (4)  
ART 328. Mexican Art (4)  
ART 329. Chicano Art (4)  
ART 359. History of Photography (4)  
ART 410. Studies in Art History (4)  
ART 420. Art from 1900 to the Present (4)  
ART 423. Nineteenth Century European Art (4)  
ART 520. Contemporary Art, Theory and Criticism (4)  
ART 525. Seminar in Art History (4)
2. ART 333. History of Graphic Design (4)
3. ART 342. Graphic Design I (5)
4. ART 343. Graphic Design II (5)
5. ART 344. Graphic Design III (5)
6. ART 442. Graphic Design IV (5)
7. ART 443. Graphic Design V (5)
8. Elective studio courses not in area of specialization (Some courses listed require lower division prerequisites.)  
Two five-unit courses chosen from:  
ART 304. Advanced Drawing and Life Drawing (5)  
ART 313. Printing Production (5)  
ART 320. Digital Imaging Editing (5)  
ART 322. Web Design (5)  
ART 325. Advanced Digital Image Editing (5)  
ART 326. Interactive Multimedia Design (5)  
ART 330. Animation and Web Motion-Graphics (5)  
ART 335. Intermediate Painting (5)  
ART 336. Advanced Painting (5)  
ART 341. Advanced Sculpture (5)  
ART 355. Ceramics II (5)  
ART 357. Ceramics III (5)  
ART 361. Printmaking II (5)  
ART 362. Printmaking III (5)  
ART 368. Woodworking and Furniture Design I (5)  
ART 369. Advanced Woodworking and Furniture Design (5)  
  
ART 370. Glass II: Advanced Beginning Glassblowing (5)  
ART 371. Glass Coldworking (5)  
ART 372. Glass Kilnforming and Kilncasting (5)  
ART 386. Digital Photography (5)

- ART 387. Video Art (5)
- ART 391. Photography II (5)
- ART 393. Studio Photography (5)
- ART 394. Color Photography (5)
- ART 396. New Genres (5)
- ART 398. Documentary Photography (5)
- ART 441. Public Art (5)
- ART 470. Glass III: Intermediate Glassblowing (5)
- ART 492. Advanced Photography (5)
9. ART 415. Senior Seminar: Art and Society (2)
10. MKTG 305. Marketing Principles (4)

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## B.A. IN ART - PLAN V

### (Graphic Design and Marketing)

#### Requirements (89 units)

#### Total units required for graduation: 180

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This program is designed for students with a strong interest in graphic design, marketing, public relations and business communications.

#### Requirements for the B.A. in Art - Plan V:

Lower-division requirements (eight courses totalling 32 units)

1. ACCT 211. Introductory Accounting (4)
2. ART 120. Introduction to Two Dimensional Design (4)
3. ART 221. Art History: Prehistoric Times through the Middle Ages (4)
4. ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
5. ART 223. Art History: Renaissance to the Present (4)
6. ART 232. Principles of Design Management (4)
7. ART 238. Production of Visual Information Design (4)
8. Four units chosen from:  
ECON 200. Principles of Microeconomics (4)  
ECON 202. Principles of Macroeconomics (4)  
MGMT 100. Introduction to Business and Public Administration (4)

Upper-division requirements (45 units)

1. ART 333. History of Graphic Design (4)
2. ART 342. Graphic Design I (5)
3. ART 343. Graphic Design II (5)
4. ART 344. Graphic Design III (5)
5. ART 442. Graphic Design IV (5)
6. ART 443. Graphic Design V (5)
7. MKTG 305. Marketing Principles (4)
8. MKTG 410. Consumer Behavior (4)
9. MKTG 420. Advertising (4)
10. MKTG 446. Advertising Campaign (4)

Electives (12 units)

1. Twelve units chosen from (if not taken previously):  
ART 301. Topics in Studio Art for Non-Majors (2.5)  
ART 575. Internship (4)  
ECON 200. Principles of Microeconomics (4)  
ECON 202. Principles of Macroeconomics (4)  
MGMT 100. Introduction to Business (4)  
MGMT 302. Management and Organizational Behavior (4)  
MGMT 442. Small Business Management (4)  
MKTG 416. Marketing Research (4)  
MKTG 430. Professional Selling (4)  
MKTG 470. International Marketing Management (4)  
MKTG 496. Marketing Planning and Strategy (4)  
MKTG 575. Internship in Marketing (4)  
MKTG 590. Seminar in Marketing (4)

## HONORS PROGRAM

To be awarded Honors in Art, an art major must:

1. Achieve a university grade point average of 3.25;
2. Achieve a grade point average of 3.5 in the major;
3. Be recommended by three faculty, at least one of whom is in their plan and concentration;
4. In special circumstances, the department may grant honors to students who fail to meet some or all the above requirements, but have in some other way demonstrated exceptional achievement in the field of art.

Students interested in receiving honors must initiate the process by making a formal application to the Art Department prior to their final term of study.

## TEACHING CREDENTIAL PROGRAM

The Bachelor or Art in Art - Plan I is an approved single subject teaching credential preparation program in art. For information about prerequisite courses, professional education component of the credential program, admission to the teacher education program and specific requirements for the single subject waiver program, see Page 157 or contact the Credentials Office, CE-102.

## MINOR IN ART HISTORY

### Requirements (28 units)

#### Requirements for a minor in Art History:

Lower-division requirements (three courses totalling 12 units)

1. ART 221. Art History: Prehistoric Times through the Middle Ages (4)
2. ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
3. ART 223. Art History: Renaissance to the Present (4)

Upper-division requirements (16 units)

1. Art history  
Sixteen units chosen from:  
ART 305. Women and Art (4)  
ART 306. Greek and Roman Art (4)  
ART 310. Asian Art (4)  
ART 311. Art of the United States to the End of the Nineteenth Century (4)  
ART 314. The Art of Indigenous Peoples (4)  
ART 316. Arts of the Ancient Near East and Egypt (4)  
ART 321. Renaissance Art (4)  
ART 323. Native North American Art (4)  
ART 324. Pre-Columbian Art (4)  
ART 327. Baroque and Rococo Art (4)  
ART 328. Mexican Art (4)  
ART 329. Chicano Art (4)  
ART 333. History of Graphic Design (4)  
ART 359. History of Photography (4)  
ART 410. Studies in Art History (4)  
ART 420. Art from 1900 to the Present (4)  
ART 423. Nineteenth Century European Art (4)  
ART 520. Contemporary Art, Theory and Criticism (4)  
ART 525. Seminar in Art History (4)

## MINOR IN FILM STUDIES

### Minor in Film Studies

The Department of Art participates in the interdisciplinary minor in Film Studies. Details concerning this minor are found on Page 125.

## MINOR IN GRAPHIC DESIGN - PRINT

### Requirements (33 units)

#### Requirements for a minor in Graphic Design - Print:

1. ART 232. Principles of Design Management (4)
2. ART 238. Production of Visual Information Design (4)
3. ART 342. Graphic Design I (5)
4. ART 343. Graphic Design II (5)
5. ART 344. Graphic Design III (5)
6. ART 442. Graphic Design IV (5)
7. ART 443. Graphic Design V (5)

## MINOR IN GRAPHIC DESIGN - WEB

### Requirements (33 units)

#### Requirements for a minor in Graphic Design - Web:

1. ART 232. Principles of Design Management (4)
2. ART 238. Production of Visual Information Design (4)
3. ART 320. Digital Image Editing (5)
4. ART 322. Web Design (5)
5. ART 325. Advanced Digital Image Editing (5)
6. ART 326. Interactive Multimedia Design (5)
7. ART 330. Animation and Web Motion-Graphics (5)

## MINOR IN STUDIO ART

### Requirements (43 units)

#### Requirements for a minor in Studio Art:

Lower-division requirements (seven courses totalling 28 units)

1. ART 120. Introduction to Two Dimensional Design (4)
2. ART 121. Introduction to Three Dimensional Design (4)
3. ART 122. Introduction to Drawing and Life Drawing (4)
4. ART 123. Introduction to Art and Technology (4)
5. ART 221. Art History: Prehistoric Times through the Middle Ages (4)
6. ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
7. ART 223. Art History: Renaissance to the Present (4)

Studio course (5 units)

1. One lower-division course chosen from:

- ART 235. Painting I (5)
- ART 240. Sculpture I (5)
- ART 254. Ceramics I (5)
- ART 260. Printmaking I (5)
- ART 290. Photography I (5)

Upper-division requirements (10 units)

Studio courses

1. Two five-unit courses chosen from:

- ART 304. Advanced Drawing and Life Drawing (5)
- ART 313. Printing Production (5)
- ART 320. Digital Imaging Editing (5)
- ART 322. Web Design (5)
- ART 325. Advanced Digital Image Editing (5)
- ART 326. Interactive Multimedia Design (5)
- ART 335. Intermediate Painting (5)
- ART 336. Advanced Painting (5)
- ART 341. Advanced Sculpture (5)
- ART 355. Ceramics II (5)
- ART 357. Ceramics III (5)
- ART 361. Printmaking II (5)
- ART 362. Printmaking III (5)
- ART 368. Woodworking and Furniture Design I (5)
- ART 369. Advanced Woodworking and Furniture Design (5)

ART 370.	Glass II: Advanced Beginning Glassblowing (5)
ART 371.	Glass Coldworking (5)
ART 372.	Glass Kilnforming and Kilncasting (5)
ART 387.	Video Art (5)
ART 391.	Photography II (5)
ART 393.	Studio Photography (5)
ART 394.	Color Photography (5)
ART 396.	New Genres (5)
ART 398.	Documentary Photography (5)
ART 470.	Glass III: Intermediate Glassblowing (5)
ART 492.	Advanced Photography (5)

## CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. See Page 58 for additional certificate information.

### Certificate in Business Skills for the Artist

#### Certificate Requirements (32 units)

1. ACCT 211. Introductory Accounting I (4)
2. MGMT 442. Small Business Management (4)
3. MKTG 305. Marketing Principles (4)
4. Twenty units of upper-division studio art courses chosen in consultation with an advisor.

## COURSE OFFERINGS IN

### ART (ART)

#### Lower Division

##### 112. Special Topics in Art

Study of a selected topic, theme or movement in the visual arts. May be repeated for credit as topics change. Materials fee required. (1-2 units)

##### 120. Introduction to Two Dimensional Design

An introduction to and exploration of the basic principles, components and terminology of two dimensional design that are common to the visual arts. Included are two-dimensional theory, theories of color and light, and their creative use in visual art and design as a graphic means of expression and communication. Materials fee required. Formerly ART 212. Eight hours activity. (ART 120=**CAN** ART 14) (4 units)

##### 121. Introduction to Three Dimensional Design

An introduction to and exploration of the elements and principles of three dimensional design and their applications, with emphasis on form in space, design systems, and contemporary art concepts. Experimentation in both natural and synthetic materials such as paper, clay, metal, and wood. Materials fee required. Formerly ART 213 and 214. Eight hours activity. (ART 121=**CAN** ART 16) (4 units)

##### 122. Introduction to Drawing and Life Drawing

An introduction to techniques of drawing for the purpose of creative expression related to object placement in space, figure placement in space and rendering, as it applies to various fields of art and design. There is an emphasis on form, structure, values, proportions,

line, gesture, and systems of perspective and space. Materials fee required. Formerly ART 215 and 216. Eight hours activity. (ART 122=**CAN** ART 8) (4 units)

##### 123. Introduction to Art and Technology

An introduction to computer based digital technology used by visual artists and designers. Student projects explore the creative potential of the digital environment and its relationship to the studio and design concentrations. Work includes instruction in a Macintosh-based computer laboratory in software programs used by studio artists. Materials fee required. Formerly ART 217 and 218. Eight hours activity. (4 units)

##### 200. Studies in Art

Exploration of the form and content of art. Emphasis on understanding and appreciating painting, sculpture, architecture and other art media. May not be counted toward fulfilling requirements in the art major. Materials fee required. (**GE**=C1) (4 units)

##### 221. Art History: Prehistoric Times through the Middle Ages

Development of early Western art and its historical context. Materials fee required. (ART 221=**CAN** ART 2) (4 units)

##### 222. Art History: Africa, Asia, the Americas and Oceania

Development of global arts and their historical contexts, including traditions of Africa, Asia, the Americas and Oceania. Materials fee required. (4 units)

##### 223. Art History: Renaissance to the Present

Development of later Western art and its historical context. Materials fee required. (ART 223=**CAN** ART 4) (4 units)

##### 232. Principles of Design Management

An introduction to basic procedures used by designers and production managers including techniques of problem solving, presentation, typography, layout and graphic arts practices, and composition and includes instruction in graphics software programs in a Macintosh-based computer laboratory. The focus will be on concept, process and product. Materials fee required. Formerly ART 332. Eight hours activity. Prerequisites: ART 120 and 122 or consent of instructor. (4 units)

##### 235. Painting I

Pictorial functions of formal elements of picture-making such as line, plane, color and light, pattern and edge. Two hours lecture and six hours laboratory. Materials fee required. Formerly ART 335. Prerequisites: ART 120 and 122. (ART 235=**CAN** ART 10) (5 units)

##### 238. Production of Visual Information Design

An introduction to the fundamentals of pre-press and printing production in a digital environment and includes instruction in graphics software programs in a Macintosh-based computer laboratory. Materials fee required. Formerly ART 338. Eight hours activity. Prerequisites: ART 120 and 122 or consent of instructor. (4 units)

##### 240. Sculpture I

Approaches to sculpture using a variety of materials, tools, processes and concepts. Materials fee required. Two hours lecture and six hours laboratory. Formerly ART 340. Prerequisite: ART 121 or consent of instructor. (ART 240=**CAN** ART 12) (5 units)



**254. Ceramics I**

Beginning techniques of coil/slab building, wheel throwing, mold making, and glaze applications of low and high fire surfaces. Two hours lecture and six hours laboratory. Materials fee required. Formerly ART 354. (ART 254=CAN ART 6) (5 units)

**260. Printmaking I**

Introduction to the basic processes and materials of printmaking with a thorough exploration of monotypes, color reduction and relief techniques, including wood and linoleum cutting and other processes. Two hours lecture and six hours laboratory. Materials fee required. Formerly ART 360. Prerequisites: ART 120, 122, and 123 or consent of instructor. (ART 260=CAN ART 20) (5 units)

**270. Glass I: Beginning Glassblowing**

Intended for beginners with little or no experience with molten glass interested in learning the basic techniques of glassblowing. Hands-on course during which the fundamental aspects of glassblowing will be explored. Through demonstrations and practice, students will become acquainted with the tools and materials needed to realize blown forms in glass. Working with clear glass, students will develop basic glassblowing skills by learning how to form simple shapes such as the sphere, cylinder, disc, and vessel form. Individual student skills emphasized. Materials fee required. Prerequisite: ART 120 or consent of instructor. (5 units)

**290. Photography I**

Fundamentals of black and white photography including manual camera operation, black and white film developing and printing. Emphasis on composition, content and image-making for creative expression. Two hours lecture and six hours laboratory. Formerly ART 390. Materials fee required. (ART 290=CAN ART 18) (5 units)

**Upper Division****301. Topics in Studio Art for Non-Majors**

Introduction to and experimentation in selected areas of art. Not open to art majors. May be repeated for credit as topics change. Materials fee required. (2.5 units)

**302. Topics in Studio Art for Non-Majors**

Introduction to and experimentation in selected areas of art. Not open to art majors. May be repeated for credit as topics change. Materials fee required. (5 units)

**304. Advanced Drawing and Life Drawing**

Further exploration in techniques of drawing for purposes of creative expression. A maximum of 25 units may be applied toward the major. Materials fee required. Prerequisite: ART 122 or consent of instructor. (5 units)

**305. Women and Art**

Survey of women artists in Europe and America from ancient to modern times, contrasting feminist and conventional perspectives. Explores issues of artistic style and content and examines the institution of patronage and its effect on women artists. Formerly a topic under ART 410. Materials fee required. (4 units)

**306. Greek and Roman Art**

Architecture, sculpture, painting and decorative arts of ancient Greece and Rome. Materials fee required. (4 units)

**310. Asian Art**

History and development of selected Asian art traditions in their historical contexts. Materials fee required. (4 units)

**311. Art of the United States to the End of the Nineteenth Century**

Development of American art from the Colonial period to c. 1900. Significant examples from the fields of architecture, sculpture, painting and the decorative arts. Materials fee required. (4 units)

**313. Printing Production**

Foundation of printing production including procedures for operating a two-color offset press and related tools and equipment. Materials fee required. (5 units)

**314. The Art of Indigenous Peoples**

Art of the native cultures of Africa, the South Pacific and North America; post-conquest and contemporary folk art in Central and South America. Materials fee required. (4 units)

**316. Arts of the Ancient Near East and Egypt**

History and development of the architecture, sculpture and decorative arts of the Ancient Near East and Egypt. Materials fee required. (4 units)

**320. Digital Image Editing**

Introduction to image processing and editing software. Retouching, restoring, color correction, adjusting brightness, contrast and color balance, applying patterns, filters and special effects, create montages, paint and use selection, layering, feathering, and painting tools, gain an understanding of the significance of image formats and resolution for scanning and output, and work with processed images in other software applications. Two hours lecture and six hours laboratory. Materials fee required. (5 units)

**321. Renaissance Art**

Art and architecture of northern and southern Europe in the fifteenth and sixteenth centuries. Materials fee required. (4 units)

**322. Web Design**

A hands-on course on the fundamentals of designing functional Web pages from the graphic designer's perspective. Includes general structure and tagging, troubleshooting techniques, and the use of graphically oriented web authoring tools. No prior computer experience required. Two hours lecture and six hours laboratory. Materials fee required. (5 units)

**323. Native North American Art**

Art of American Indian and Eskimo peoples north of Mexico, from earliest prehistory to modern times. (Also offered as ANTH 323. Students may not receive credit for both.) Materials fee required. (4 units)

**324. Pre-Columbian Art**

Art and architecture of pre-Columbian cultures with an emphasis on Mexico and Peru. (Also offered as ANTH 324. Students may not receive credit for both.) Materials fee required. (4 units)

**325. Advanced Digital Image Editing**

Advanced course in the use of the image processing software. Multiple masking, controlling color transparency, layers, luminosity, complex image compositing, duo-toning, tritoning, ghosting, 3-D, neon, pasting scanned images into text, photo-realism, typesetting, threshold masking, advanced file management, high-end scanning and output, RGB to CMYK and color separations, and offset reproduction. Presents the creative aspects of editing motion-graphics and still images and provides an analysis of the audio and visual forces that make digital media an expressive means of communication. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 320 or permission of instructor. (5 units)

**326. Interactive Multimedia Design**

An introduction to designing computer-based interactivity. Students combine two-dimensional and three-dimensional graphic imaging and audio and video technology for achieving interactivity from multiple source media. Interface and user design are covered, as well as portfolio and professional presentations online, and/or in CD/DVD/video formats. Two hours lecture and six hours laboratory. Materials fee required. (5 units)

**327. Baroque and Rococo Art**

Art and architecture of seventeenth and eighteenth century Europe. Materials fee required. (4 units)

**328. Mexican Art**

Art and architecture of Mexico from the Conquest to the present. Materials fee required. (4 units)

**329. Chicano Art**

Art and culture of Mexican Americans. Materials fee required. (4 units)

**330. Animation and Web Motion-Graphics**

Advanced graphically oriented Web authoring tools. Covers scripting to create database connectivity and exploration of the newest Web innovations in game design and traditional character to contemporary experimental animation. This includes the use of cel, stop-motion, collage, mixed media and 2- and 3-D animation software. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 322 or consent of instructor. (5 units)

**333. History of Graphic Design**

Development of graphic communication from pictographs to contemporary design. Materials fee required. (4 units)

**335. Intermediate Painting**

Intermediate research in painting introducing the medium's expressive and conceptual possibilities. Includes color theory, composition, and material techniques developed in relation to the medium's historical background and contemporary practices. Two hours lecture and six hours activity. May be repeated for credit for a total of ten units. Materials fee required. Prerequisite: ART 235 or consent of instructor. (5 units)

**336. Advanced Painting**

Advanced work in painting. May be repeated for credit. Materials fee required. Two hours lecture and six hours activity. Prerequisite: ART 335 twice or consent of instructor. (5 units)

**341. Advanced Sculpture**

Advanced work in sculpture. May be repeated for credit. Materials fee required. Two hours lecture and six hours laboratory. Prerequisite: ART 240. (5 units)

**342. Graphic Design I**

Fundamentals and principles of typographic design. An examination of the different elements of typography. Instruction also includes coursework in computer-graphics software programs in a Macintosh-based computer laboratory. Two hours lecture and six hours laboratory. Materials fee required. Prerequisites: ART 232 and 238 or consent of instructor. (5 units)

**343. Graphic Design II**

Principles of photography, illustration, collage and typography applied to posters, games, book covers, magazines, point-of-purchase displays, and promotional materials, and includes instruction in computer-graphics software programs in a Macintosh-based computer laboratory. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 342 or consent of instructor. (5 units)

**344. Graphic Design III**

Design principles as applied to regional and national, corporate and retail environments. Covers the interactions between business people and designers and the realities of planning, marketing, and strategic positioning of both company and product, and includes instruction in computer-graphics software programs in a Macintosh-based computer laboratory. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 343 or consent of instructor. (5 units)

**345. Gallery Management**

Fine art gallery practices including installation, packing and crating, special event coordination and conduct. Preparation of publications and publicity, art handling and security. May be repeated for credit with consent of instructor. (2 units)

**355. Ceramics II**

Continued exploration in functional and sculptural approaches to ceramics utilizing slip casting, wheel throwing, hand building techniques, and multiple glazing applications with low fire and high fire surfaces. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 254 or consent of instructor. (5 units)

**357. Ceramics III**

Advanced exploration of form/surface relationships combining mold making, wheel throwing, slip casting and hand building techniques. Advanced glaze applications will result in the development of individual styles and ideas. May be repeated for credit. Two hours lecture and six hours laboratory. Materials fee required. Prerequisites: ART 121 and 254 or consent of instructor. (5 units)

**359. History of Photography**

Development of the technology and aesthetics of photography. Materials fee required. (4 units)

**361. Printmaking II**

Creative research in intermediate studio printmaking techniques in intaglio methods, including metal, collograph and related materials; methods used to create stencils for multi-color registration and printing including photo processing; lithographic methods on stone or metal plates; black and white and color processes and polymer relief processes. Two hours lecture and six hours laboratory. Materials fee required. Prerequisites: ART 120, 122 and 260. (5 units)

**362. Printmaking III**

Intensive, advanced study of printmaking including the study of etching, collograph, silkscreen, lithography or experimental processes and combinations stressing individual growth and aesthetic control of imagery and technique. May be repeated for credit. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 361. (5 units)

**365. Directed Studio Problems**

Study and experimentation in a selected area of art. May be repeated for credit. Materials fee may be required.1 Prerequisite: consent of instructor. (1-5 units)

**368. Woodworking and Furniture Design I**

Explorations in the use of hand and power tools in woodworking. Materials fee required. (5 units)

**369. Advanced Woodworking and Furniture Design**

Advanced work in woodworking and furniture design. May be repeated for credit. Materials fee required. Two hours lecture and six hours laboratory. Prerequisite: ART 368. (5 units)

**370. Glass II: Advanced Beginning Glassblowing**

Advanced beginning course in which students will develop an understanding of the wide range of possibilities that exist when working with glass in the fields of fine art, craft, design, and architecture. Offers a comprehensive education in techniques, materials, history and philosophy relating to glass. Emphasis is on the sculptural and aesthetic potential of glass in its molten and frozen states. Students will learn such techniques as solid offhand molten glassworking, glassblowing, kiln casting, cold construction, mold making, sandblasting, and various surface processes. Formerly ART 375. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 270 or consent of instructor. (5 units)

**371. Glass Coldworking**

Provides comprehensive technical instruction on basic glass coldworking processes including glass polishing, sandblasting, etching, cutting, engraving, gluing, laminating, glass drilling. Students will apply new technical skills to self-generated projects. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 370 or consent of instructor. (5 units)

**372. Glass Kilnforming and Kilncasting**

Offers a survey of kiln techniques including fusing (melting flat pieces of glass together), slumping (melting flat glass over a dimensional object) and coldwork. Offers a practical overview of the principal techniques required to realize cast forms in glass, including the making of multi-piece plaster and silicon rubber molds used in the reproduction of forms, the lost wax process, and the various refractory molds used for casting these forms in glass. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 371 or consent of instructor. (5 units)

**386. Digital Photography**

Fundamentals of digital photography with emphasis on theory, aesthetics, and technology for fine art and commercial applications. Instruction includes acquisition techniques (digital cameras and scanning equipment), image correction and manipulation software, and output technologies. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 290 or consent of instructor. (5 units)

**387. Video Art**

Creative research and experimentation in video art including history, theory, production (camera, lighting, sound, and editing techniques), presentation (single channel, multi-channel, projection, and installation), and contemporary practices. Two hours lecture and six hours activity. Materials fee required. (5 units)

**391. Photography II**

Advanced black and white printing techniques, non-silver and alternative processes, medium and large format photography, intermediate research in contemporary photography as an expressive medium. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 290 or consent of instructor. (5 units)

**393. Studio Photography**

Fundamentals of studio photography including strobes, electronic metering, medium and large format cameras, lighting for still life and portraiture. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 290 or consent of instructor. (5 units)

**394. Color Photography**

The theory, aesthetics, techniques, and materials of creative color photography and other color imaging systems. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 290 or consent of instructor. (5 units)

**395. Art in the Classroom**

Provides basic art skills and experiences and current art education theory and practice for the elementary classroom teacher. Students will learn how to design art lessons and art activities based on works of art in accordance with California and National standards for the visual arts. May not be counted towards fulfilling requirements in the art major. May not be taken for credit by students who have received credit for ART 400. Six hours of fine arts activity. Materials fee required. (3 units)

**396. New Genres**

Creative research and experimentation in contemporary artistic expression including installation art, performance art, and video art. Two hours lecture and six hours laboratory. Materials fee required. May be repeated for a total of 10 units, with a maximum of five units applied to the student's area of specialization. Prerequisites: ART 120 and 121 or consent of instructor. (5 units)

**397. Art and Media for the Classroom**

Further development of basic art skills for the elementary classroom teacher. Includes appropriate materials for elementary students, preparing high and low tech classroom visual aids, and curriculum planning based on the California Visual and Performing Arts Frameworks. Two hours lecture and four hours activity. Materials fee required. Prerequisite: ART 395. (4 units)

**398. Documentary Photography**

Creative research in the study of social documentary and landscape photography, integrating history, technique, various stylistic and theoretical approaches, and practice. Includes a service-learning component that requires the production of a photographic project in partnership with a local agency or community group. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 290 or consent of instructor. (5 units)

**399. Art Education: History, Philosophy and Theory**

An introduction to art education emphasizing its evolution, historical structures and contemporary approaches to curriculum. Art education methodology and its relationship to studio art, art criticism, art heritage and aesthetics will be included along with developmental levels of children as they relate to art making. Recommended for art education students prior to senior year. (4 units)

**400. Teaching Art in the Elementary Classroom**

Provides art skills, current art education theory and practice for the elementary classroom teacher with an elevated interest in visual art. Students will learn how to design art lessons and art activities based on works of art in accordance with California Visual Art Standards. May not be counted towards fulfilling requirements in the art major. May not be taken for credit by students who have received credit for ART 395. Two hours lecture and four hours of fine arts activity. Materials fee required. Prerequisites: ART 200 and a college-level studio art course. (4 units)

**410. Studies in Art History**

Study in a selected period or topic in the history of art. May be repeated for credit as topics change. Materials fee required. (4 units)

**415. Senior Seminar: Art and Society**

The theoretical and practical roles of art, artists and their audience through history to the present. Prerequisite: senior standing in Department of Art or consent of instructor. (2 units)

**416. Senior Project**

Preparation of a senior project in the student's area of concentration. Documentation of project is required. Graded credit/no credit Materials fee required. Prerequisite: senior standing in Department of Art or consent of instructor. (2 units)

**420. Art from 1900 to the Present**

Art from 1900 to the present, with emphasis on Europe and the United States. Materials fee required. (4 units)

**423. Nineteenth Century European Art**

Art of the Nineteenth-century Europe; from neo-Classicism through post-Impressionism. Materials fee required. (4 units)

**441. Public Art**

The study and practice of art for public places including the history, theory, conceptualization, production, and professional and business practices. May be repeated for credit. Two hours lecture and six hours activity. Materials fee required. (5 units)

**442. Graphic Design IV**

Advanced corporate identity, including logo and trademark design and related applications. Instruction includes coursework in computer-graphics software programs in a Macintosh-based computer laboratory. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 344 or consent of instructor. (5 units)

**443. Graphic Design V**

Design and portfolio workshop: workshop in resume preparation, development of job objectives, mock interviews, and the construction of a portfolio. Instruction includes coursework in computer-graphics software programs in a Macintosh-based computer laboratory. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 442 or consent of instructor. (5 units)

**470. Glass III: Intermediate Glassblowing**

Further development of skills to gain better control of the blown glass medium through conceptual projects and technical exercises. A variety of vessel forms, bit work and color techniques are demonstrated with an emphasis on teamwork and communication. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 372 or consent of instructor. (5 units)

**471. Glass IV: Advanced Glassblowing**

Students will cultivate a personal portfolio and develop a body of work. Theoretical, philosophical, and critical dialogue is realized through individual and group critique. Students will participate in the following hot glass processes; gathering and forming freehand molten glass using traditional techniques, experimenting with solid and hollow forms, hot construction techniques and team production and forming with molds. May be repeated for credit. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 470 or consent of instructor. (5 units)

**483. Studies in Studio Art**

Study and experimentation in a selected area of art. May be repeated for credit as topics change. Materials fee required. Prerequisites: ART 120, 121, 122, and 123 or consent of instructor. (5 units)

**492. Advanced Photography**

Advanced work in photography. May be repeated for credit. Two hours lecture and six hours laboratory. Materials fee required. Formerly ART 392. Prerequisites: ART 290, and and successfully complete any two of the following: ART 386, 391, 393, 394, 398 or consent of instructor. (5 units)

**496. Art Education: Social and Cultural Frameworks**

A study of the historical and contemporary contexts for art and how they relate to current art education methods and curriculum. Issues of diversity, ethnicity, gender and environment will be included. Materials fee required. Prerequisite: ART 399. (4 units)

**497. Art Education: Issues in Studio Practice**

Translation and implementation of unit lesson plans; studio techniques, materials and media, contemporary art making and theory for K-12 students, California Visual Art Content Standards, classroom safety practices, and classroom management skills. Materials fee required. Four hours activity. Prerequisite: ART 399. (4 units)

**498. Art Education: Digital Technology**

Digital technologies for the K-12 art classroom. Includes theoretical methodologies and practical applications for digital curriculum design, multimedia presentations, school-based web pages; virtual galleries, visual aids, computer assisted student projects, and on-line hybrid-based discussions and readings. Materials fee required. Three hours lecture and four hours laboratory. Prerequisites: ART 123, 399 and 232 or 238. (5 units)

**499. Art Education: Methods and Materials**

A synthesis of contemporary art education theory, studio practice, student assessment and topics of classroom teaching. Students experience planning and developing lessons, units and curriculum that are sensitive to contemporary art and art education issues. Materials fee required. Prerequisites: ART 399, 496 and 497. (4 units)

**520. Contemporary Art, Theory and Criticism**

An examination of selected major movements of contemporary art, and recent art theory and criticism. Formerly ART 459 and 625. Materials fee required. Prerequisite: a minimum of 12 units in art history. (4 units)

**525. Seminar in Art History**

Historical perspectives on specific art disciplines including research methods in art history for studio artists. Materials fee required. Prerequisite: a minimum of 12 units in art history. (4 units)

**575. Internship**

Supervised work in a private or public setting which provides professional experience in the field of art. May be repeated for a maximum of 10 units in the major. Materials fee required. Prerequisite: consent of instructor. (1-5 units)

**595. Independent Study**

Studio and/or library research conducted under the direction of a faculty member. May be repeated for credit, a total of 10 units may apply toward graduation. Materials fee required. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-6 units)



# ASIAN STUDIES

## Department of Communication Studies

University Hall, Room 018

(909) 537-5815 <http://communication.csusb.edu/>

### Minor

Asian Studies

**Coordinator:** Rueyling Chuang

### MINOR IN ASIAN STUDIES

#### Requirements (29-32 units)

#### Requirements for a minor in Asian Studies:

#### Admission to the Program

1. Students must meet general university admission requirements.
2. Students in all majors are eligible to participate in this program.

#### Program Requirements

1. Four units chosen from:
  - ANTH 362. Peoples of Asia (4)
  - ASIA 392. Topics in Asian Studies (4)
2. HUM 328. Asian Cultural Traditions (4)
3. Four units of foreign language study chosen from:
 

NOTE: There are two prerequisite classes (or their equivalent) for each of the following 150 level courses.)

  - FLAN 150K. Intermediate Language Study: Korean (4)
  - JAPN 150. Intermediate Japanese (4)
  - MAND 150. Intermediate Mandarin (4)
4. International Experience Component (1-4 units)
 

Students are required to have an international experience or equivalent as part of this minor. This experience can be gained through approved international language programs, internships, research, or study abroad options, including CSU International Programs. Credit may be granted for significant international experiences completed prior to taking courses toward this minor.

One to four units chosen from:

  - ASIA 575. Internship in Asian Studies (1-4)
  - ASIA 595. Independent Study (1-4)
  - HUM 578. International Experience: Asian Studies (1-4)
5. Integrative International Seminar
  - HUM 425. Integrative Seminar in Asian Studies (4)

#### Electives (12 units)

1. At least four units from each of groups A, B, and C below:
  - A. Social Sciences (4 units)
    - ANTH 330. Cross-Cultural Child-Rearing Practices (4)
    - ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
    - ANTH 365. Asian American Cultures (4)
    - ANTH 366. Filipino Cultural Expressions (2-8)
    - ANTH 466. Anthropology of Health, Illness and Healing (4)
    - HIST 426. Early Imperial China (4)
    - HIST 428. Medieval China (4)
    - HIST 430. China, 1895-Present (4)
    - HIST 432. Communist China (4)
    - HIST 434. East Asia Since World War II (4)
    - HIST 440. Japan, 1868-present (4)
    - HIST 567. The Asian-American Experience (4)
    - PSCI 352D. Minority Politics: Asian American Politics (4)
    - SOC 425. Asian Americans: Origins and Ethnicity (4)

Credit will be given to following courses contingent on a significant amount of content focusing on Asia and Asian cultures and approved by an Asian Studies advisor:

- ANTH 332. Cross-Cultural Perspectives on Aging (4)
- ECON 430. International Economics (4)
- PSYC 345. Cross Cultural Psychology (4)
- SSCI 300. Non-Western World (4)

#### B. Arts, Languages, Literature, and Education (4 units)

- ART 310. Asian Art (4)
- DAN 310D. World Dance Traditions: Asian (2)
- JAPN 290. Japanese Literature in Translation (4)
- MAND 290. Chinese Literature in Translation (4)
- PHIL 193. Introduction to Eastern Philosophy (4)
- PHIL 375. Non-Western Philosophy (4)
- TA 463. Asian Theatre (4)

Credit will be given to following courses contingent on a significant amount of content focusing on Asia and Asian cultures and approved by an Asian Studies advisor:

- ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
- ENG 319. Studies in Literary Diversity (4)
- ENG 321. Studies in Language and Linguistics (4)
- MUS 350. Music of World Cultures (4)
- PHIL 472. Advanced Issues in Philosophy of Religion (4)
- TA 464. Theatre in the Post-colonial World (4)
- TA 465. Ethnic Film and Film Makers (4)

#### C. Business, Management, Communications, Health and Nutrition, Environment (4 units)

- ADMN 590. Seminar in Administration (4) when the topic is Asian
  - COMM 410. Asian Media and Culture (4)
  - KINE 114F. Physical Fitness and Conditioning Activities: Yoga (2)
  - KINE 120A. Combative and Martial Arts Activities: Aikido (2)
  - KINE 120B. Combative and Martial Arts Activities: Tai Chi (2)
  - KINE 120D. Combative and Martial Arts Activities: Judo (2)
  - KINE 120E. Combative and Martial Arts Activities: Karate (2)
- Credit will be given to following courses contingent on a significant amount of content focusing on Asia and Asian cultures and approved by an Asian Studies advisor:
- COMM 302. Communication, Language and Culture (4)
  - COMM 304. Intercultural Communication (4)
  - COMM 471. International Communication (4)
  - COMM 580. Culture and Ethnicity in Language (4)
  - FIN 433. International Business (4) (project/research focus on Asia)
  - HSCI 344. International Perspectives on Nutrition (4)
  - HSCI 359. International Perspectives on Health (4)
  - HSCI 385. Food and Culture: Traditions and Trends (4)
  - MGMT 305. International Organization Behavior (4)
  - MGMT 324. International Environmental Management (4)
  - MGMT 405. International Management (4)
  - MKTG 470. International Marketing Management (4)

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COURSE OFFERINGS IN  
Asian Studies (ASIA)

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Upper Division

- 392. Topics in Asian Studies**  
Study of selected topics or areas of interest in Asian studies. May be repeated for credit as topics change. (4 units)
- 575. Internship in Asian Studies**  
Supervised internship in Asian Studies. Prerequisites: written consent form a supervising agency within which the internship will take place and consent of the Asian Studies Program Committee coordinator. (1-4 units)
- 595. Independent Study in Asian Studies**  
Independent study in special topics in Asian studies. Prerequisites: consent of instructor and approval by the Asian Studies Program coordinator. (1-4 units)

# ASTRONOMY

## Department of Physics

Physical Sciences Building, Room 119  
(909) 537-5397 <http://physics.csusb.edu/>

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### COURSE OFFERINGS IN ASTRONOMY (ASTR)

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#### Lower Division

##### 103. Descriptive Astronomy

A brief history of the development of astronomy followed by modern descriptions of our planetary system, stars, galaxies, models of the universe and the possibilities of life in the universe. Discussions of methods of extending knowledge of the universe. No previous background in natural sciences is required, although algebra will be used in class. Four hours lecture and three hours laboratory. Materials fee required. Formerly PHYS 103. (GE= B3) (5 units)

#### Upper Division

##### 311. A Cosmic Perspective of Earth

Formation and evolution of the Earth, including its atmospheres, oceans and internal structure, placed in the context of our solar system. A comparative planetology course focusing on Earth and providing students with an understanding of where Earth fits into our solar system by introducing other solar system objects: planets, asteroids, comets, and moons alike. Fulfills the Earth and Space Science requirement for liberal studies. Four hours lecture and three hours laboratory. Materials fee required. May not count for credit towards the major or minor in Physics. Formerly PHYS 311. Prerequisites: CHEM 100 and PHYS 100. (5 units)

# BIOINFORMATICS

## Department of Biology

Biological Sciences Building, Room 329  
(909) 537-5305 <http://biology.csusb.edu/>

## Department of Chemistry and Biochemistry

Chemical Science Building, Room CS-204  
(909) 537-5318 <http://chem.csusb.edu/>

## Department of Computer Science and Engineering

Jack Brown Hall, Room 307  
(909) 537-5326 <http://cse.csusb.edu/>

### Bachelor of Science

Bioinformatics

**FACULTY:** Richard Botting, Arturo Concepcion, Kimberley Cousins, George Georgiou (Chair), Ernesto Gomez, Yasha Karant, Yu Jung Kim, Kenneth Mantel, Josephine Mendoza, Larry Mink, Owen Murphy, Dennis Pederson, Haiyan Qiao, Keith Schubert, Douglas Smith, John Tate, David Turner, Kerstin Voigt, Shumei Yang, Tong Yu, Kay Zemoudeh

Bioinformatics is essentially the interdisciplinary study of biology and biochemical systems using mathematics and computer science. Bioinformatics is a growing area, with many definitions and descriptions. Bioinformatics is the use of computers and statistics to make sense out of the huge mounds of data that are accumulating from high-throughput biological and chemical experiments, such as sequencing of whole genomes, DNA microarray chips, two-hybrid experiments, and tandem mass spectrometry.

There are three different approaches to bioinformatics:

1. Tool building. Creating new programs and methods for analyzing and organizing data.
2. Tool using. Using existing programs and data to answer biologically interesting questions.
3. Tool maintenance. Setting up databases, translating biologists' questions into ones that programs can answer, keeping the tools working and the databases up to date.

The main goal of the degree is to prepare the students for graduate studies in bioinformatics. A secondary goal is to provide the students with very relevant bioinformatics skills that will be useful for Research and Development in the growing biotechnology industries.

The degree is jointly administered by the Department of Biology, the Department of Chemistry and Biochemistry, and the Department of Computer Science and Engineering. The program is housed in the Department of Computer Science and Engineering.

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## B.S. IN BIOINFORMATICS

### Requirements (130-132 units)

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#### Total units required for graduation: 188-194

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#### Requirements for the B.S. in Bioinformatics:

Lower-division requirements (74 units)

1. BIOL 200. Biology of the Cell (5)
2. BIOL 201. Biology of Organisms (5)
3. BIOL 202. Biology of Populations (5)
4. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
5. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
6. CHEM 221A. Organic Chemistry I: Lecture (3)

7. CHEM 221B. Organic Chemistry I: Laboratory (1)
8. CHEM 222A. Organic Chemistry II: Lecture (3)
9. CHEM 222B. Organic Chemistry II: Laboratory (1)
10. CHEM 223A. Organic Chemistry III: Lecture (3)
11. CHEM 223B. Organic Chemistry III: Laboratory (1)
12. CSCI 122. Bioinformatics (2)
13. CSCI 201. Computer Science I (4)
14. CSCI 202. Computer Science II (4)
15. MATH 211. Calculus I (4)
16. MATH 212. Calculus II (4)
17. MATH 262. Applied Statistics (4)
18. MATH 272. Discrete Mathematics (4)
19. PHIL 191. Ethics (4)
20. PHYS 221. General Physics I (5)

Upper-division requirements (56-58 units)

1. BIOL 300. Cell Physiology (5)
2. BIOL 400. Molecular Biology (5)
3. A minimum of four units chosen from:
  - BIOL 421. Genetics (4)
  - BIOL 424. Comparative Animal Physiology (6)
  - BIOL 431. Comparative Plant Physiology (6)
  - BIOL 440. Principles of Development (5)
  - BIOL 450. Ecology (5)
  - BIOL 455. Marine Biology and Ecology (5)
4. CHEM 436A. Biochemistry I: Lecture (4)
5. CHEM 436B. Biochemistry I: Laboratory (1)
6. Five units chosen from:
  - CHEM 451. Physical Chemistry for Biochemists I (5)
  - CHEM 455. Physical Chemistry I (5)
  - 7. CSCI 330. Data Structures (4)
  - 8. CSCI 431. Algorithm Analysis (4)
  - 9. CSCI 500. Introduction to Formal Languages and Automata (4)
  - 10. CSCI 535. Numerical Computation (4)
  - 11. CSCI 550. Advanced Bioinformatics I: Sequence Analysis (4)
  - 12. CSCI 551. Advanced Bioinformatics II: Numerical Modeling (4)
  - 13. CSCI 572. Database Systems (4)
  - 14. MATH 372. Combinatorics (4)



# BIOLOGY

## Department of Biology

Biological Sciences Building, Room 329  
(909) 537-5305 <http://biology.csusb.edu/>

### Bachelor of Arts

Biology  
Biology - Integrated Teaching Track  
Biology - Pre-Med Option

### Bachelor of Science

Bioinformatics (See Page 106.)  
Biology  
Ecology and Evolution Option  
Pre-Med Option  
Doctor of Osteopathic Medicine Articulation

### Minor

Biology

### Certificate Program

Biotechnology

### Master of Science

Biology  
(Degree requirements can be found on Page 360.)

**FACULTY:** Colleen Bonney, Nicole Bournias, Klaus Brasch (Emeritus), Herbert Brunkhorst, Michael Chao, James Ferrari, Dalton Harrington (Emeritus), Sarojam Mankau (Emeritus), Anthony Metcalf, Kevin Middleton, Laura Newcomb, Paul Orwin, David Polcyn (Chair), Scott Shaffer, John Skillman, Alexander Sokoloff (Emeritus), Stuart Sumida (Graduate Coordinator), Jeffrey Thompson, Kimberly Williams, Ruth Wilson (Emeritus)

The major in biology emphasizes the relationship between structure and function in living systems and the concept that biological processes can be studied at different levels of organization. The program provides a balanced blend of traditional and modern biology, incorporating the important generalizations of traditional biology and the more recent advances essential to the successful biologist or medical practitioner of the future.

The excellent facilities and equipment of the department are readily available to all students enrolled in biology courses. Qualified seniors are encouraged to engage in research projects through the independent study program. Field trips are a normal and required part of a number of courses.

Many career opportunities are available to the student majoring in biology. The undergraduate program provides an excellent background for further work in medicine, dentistry, veterinary medicine and graduate programs. It can also serve for entry into a career in education, industry and governmental organizations.

Preprofessional students of medicine, dentistry or other science-based fields seeking a major in biology should consult with a departmental advisor.

## B.A. IN BIOLOGY

### Requirements (94-102 units)

**Total units required for graduation: 180**

### Requirements for the B.A. in Biology:

#### Lower-division requirements (53-61 units)

1. BIOL 200. Biology of the Cell (5)
2. BIOL 201. Biology of Organisms (5)
3. BIOL 202. Biology of Populations (5)
4. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
5. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)

#### 6. Organic chemistry

A minimum of nine units chosen from Group A or B below:

##### Group A:

- CHEM 221A. Organic Chemistry I (3)  
CHEM 222A. Organic Chemistry II (3)  
CHEM 223A. Organic Chemistry III (3)

##### Group B:

- CHEM 321. Principles of Organic Chemistry I (5)  
CHEM 322. Principles of Organic Chemistry II (5)  
CHEM 323. Principles of Organic Chemistry III (5)

#### 7. Four units chosen from:

- MATH 192. Methods of Calculus (4)  
MATH 211. Basic Concepts of Calculus (4)

#### 8. Physics

A minimum of thirteen units chosen from Group A or B below:

##### Group A:

- PHYS 121. Basic Concepts of Physics I (5)  
PHYS 122. Basic Concepts of Physics II (4)  
PHYS 123. Basic Concepts of Physics III (4)

##### Group B:

- PHYS 221. General Physics I (5)  
PHYS 222. General Physics II (5)  
PHYS 223. General Physics III (5)

#### Upper-division requirements (41 units)

1. BIOL 300. Cell Physiology (5)
2. BIOL 400. Molecular Biology (5)
3. BIOL 421. Genetics (4)
4. BIOL 422. Genetics Laboratory (1)
5. Five units chosen from:  
BIOL 450. Ecology (5)  
BIOL 455. Marine Biology and Ecology (5)
6. BIOL 591. Biology Seminar (1)
7. A minimum of 20 units of upper-division biology courses (excluding BIOL 301, 304, 305, 306, 314, 349 and 503), with at least one course from each of Groups A and B:

##### Group A:

- BIOL 319. Local Flora (5)  
BIOL 354. Biology of Higher Plants (6)  
BIOL 431. Comparative Plant Physiology (6)

##### Group B:

- BIOL 320. Microorganisms (6)  
BIOL 323. Human Anatomy for Biology Majors (6)  
BIOL 324. Human Physiology for Biology Majors (6)  
BIOL 331. Biology of Invertebrates (6)  
BIOL 335. Entomology (5)  
BIOL 340. Comparative Embryology (4)  
BIOL 342. Biology of the Chordates (6)  
BIOL 371. Parasitology (5)  
BIOL 424. Comparative Animal Physiology (6)  
BIOL 440. Principles of Development (5)  
BIOL 524. Advanced Vertebrate Morphology (3)  
BIOL 573. Immunology (5)

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**B.A. IN BIOLOGY -  
INTEGRATED TEACHING TRACK****Requirements (147-156 units)****Total units required for graduation: 207**

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Students who successfully meet the requirements for the Teaching Credential Option in Biology will earn a B.A. in Biology and a Single Subject Preliminary Teaching Credential in Biology. In addition to the course requirements listed below, students must complete the following to qualify for a Preliminary Teaching Credential:

1. Successfully complete the California Basic Education Skills Test (CBEST) and the appropriate California Subject Examinations for Teachers (CSET). These exams must be passed before enrolling in ESEC 550A;
2. Submit a Program Application File (PAF) to the the Credentials Office, CE-102.;
3. Identify an advisor who is approved by the chairs of the Biology Department and the Department of Science, Math, and Technology Education;
4. Provide verification of a negative tuberculin examination within the last 24 months, and submit an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
5. Academic Achievement

Applicants must maintain the following minimum grade point averages:

- A. A grade point average of 2.75 in all baccalaureate course work.
  - B. A grade point average of 3.0 ("B") in professional education course work with no course grade in this area lower than "B-". Students can only discount one grade in the professional education courses. They can only repeat two of these courses.
6. Course work taken at another institution, or more than seven years ago, is subject to approval by the chairs of both the Biology Department and the Department of Science, Math, and Technology Education.

**Requirements for the B.A. in Biology – Integrated Teaching Credential Option:****Lower-division requirements (53-61 units)**

1. BIOL 200. Biology of the Cell (5)
2. BIOL 201. Biology of Organisms (5)
3. BIOL 202. Biology of Populations (5)
4. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
5. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
6. Organic chemistry

A minimum of nine units chosen from Group A or B below:

**Group A:**

- CHEM 221A. Organic Chemistry I: Lecture (3)  
CHEM 222A. Organic Chemistry II: Lecture (3)  
CHEM 223A. Organic Chemistry III: Lecture (3)

**Group B:**

- CHEM 321. Principles of Organic Chemistry I (5)  
CHEM 322. Principles of Organic Chemistry II (5)  
CHEM 323. Principles of Organic Chemistry III (5)

7. Four units chosen from:

- MATH 192. Methods of Calculus (4)  
MATH 211. Basic Concepts of Calculus (4)

8. A minimum of thirteen units chosen from Group A or B below:

**Group A:**

- PHYS 121. Basic Concepts of Physics I (5)  
PHYS 122. Basic Concepts of Physics II (4)  
PHYS 123. Basic Concepts of Physics III (4)

**Group B:**

- PHYS 221. General Physics I (5)  
PHYS 222. General Physics II (5)  
PHYS 223. General Physics III (5)

**Upper-division requirements (46-47 units)**

1. ASTR 311. A Cosmic Perspective of Earth (5)
2. BIOL 300. Cell Physiology (5)
3. BIOL 321. Evolution (4)
4. BIOL 400. Molecular Biology (5)
5. BIOL 421. Genetics (4)
6. BIOL 422. Genetics Laboratory (1)
7. BIOL 590L. Senior Seminar: Integrative Approach to Biology (2)
8. Five units chosen from:  
BIOL 450. Ecology (5)  
BIOL 455. Marine Biology and Ecology (5)
9. Five or six units chosen from:  
BIOL 319. Local Flora (5)  
BIOL 354. Biology of Higher Plants (6)
10. Six units chosen from:  
BIOL 323. Human Anatomy (6)  
BIOL 342. Biology of the Chordates (6)
11. BIOL 597. Directed Study in Science Education (1) for a total of (4)

**Education Courses (48 units)**

1. ESEC 405. Introduction to Secondary School Culture (4)
2. ESEC 407. Secondary School Teaching (4)
3. ESEC 410. Adolescent Development and Learning (4)
4. ESEC 413. Language Interaction in the Classroom (4)
5. ESEC 417. Educational Psychology: Instructional Theory, Assessment and Classroom Management (4)
6. ESEC 419. Literacy Across the Curriculum (4)
7. ESEC 502. Special Topics for Undergraduates in Secondary Education (2)
8. ESEC 506L. Curriculum and Instruction in Content Areas: Life and Physical Sciences (4)
9. ESEC 550A. Student Teaching (2)
10. The following courses must be taken together:  
ESEC 512. Principles of Pedagogy (2)  
ESEC 550B. Student Teaching (4)
11. The following courses must be taken together:  
ESEC 514. Assessment and Reflection of Instruction (2)  
ESEC 550C. Student Teaching (8)

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**B.A. IN BIOLOGY - PRE-MED OPTION****Requirements (97-99 units)****Total units required for graduation: 180**

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The pre-med option will 1) satisfy the requirements for the B.A. in Biology; 2) satisfy the minimum requirements for entry to most medical schools; and 3) provide additional background courses which will improve preparation for medical school.

**Requirements for the B.A. in Biology - Pre-Med Option:****Lower-division requirements (56-58 units)**

1. BIOL 200. Biology of the Cell (5)
2. BIOL 201. Biology of Organisms (5)
3. BIOL 202. Biology of Populations (5)
4. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
5. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)

6. Organic Chemistry (12 units)
  - CHEM 221A. Organic Chemistry I: Lecture (3)
  - CHEM 221B. Organic Chemistry I: Laboratory (1)
  - CHEM 222A. Organic Chemistry II: Lecture (3)
  - CHEM 222B. Organic Chemistry II: Laboratory (1)
  - CHEM 223A. Organic Chemistry III: Lecture (3)
  - CHEM 223B. Organic Chemistry III: Laboratory (1)
7. Four units chosen from:
  - MATH 192. Methods of Calculus (4)
  - MATH 211. Basic Concepts of Calculus (4)
8. A minimum of thirteen units, chosen from Group A or B below:

**Group A:**

- PHYS 121. Basic Concepts of Physics I (5)
- PHYS 122. Basic Concepts of Physics II (4)
- PHYS 123. Basic Concepts of Physics III (4)

**Group B:**

- PHYS 221. General Physics I (5)
- PHYS 222. General Physics II (5)
- PHYS 223. General Physics III (5)

## Upper-division requirements (41 units)

1. BIOL 300. Cell Physiology (5)
2. BIOL 400. Molecular Biology (5)
3. BIOL 421. Genetics (4)
4. BIOL 422. Genetics Laboratory (1)
5. Five units chosen from:
  - BIOL 450. Ecology (5)
  - BIOL 455. Marine Biology and Ecology (5)
6. BIOL 591. Biology Seminar (1)
7. A minimum of 20 units of upper-division biology courses (excluding BIOL 301, 304, 305, 306, 314, 349 and 503), with at least one course from each of Groups A, B, and C:

**Group A:**

- BIOL 319. Local Flora (5)
- BIOL 354. Biology of Higher Plants (6)
- BIOL 431. Comparative Plant Physiology (6)

**Group B:**

- BIOL 320. Microorganisms (6)
- BIOL 323. Human Anatomy for Biology Majors (6)
- BIOL 324. Human Physiology for Biology Majors (6)
- BIOL 342. Biology of the Chordates (6)
- BIOL 371. Parasitology (5)
- BIOL 424. Comparative Animal Physiology (6)
- BIOL 440. Principles of Development (5)
- BIOL 524. Advanced Vertebrate Morphology (3)
- BIOL 573. Immunology (5)

**Group C:**

- BIOL 380. Medical and Economic Botany (4)
- BIOL 522. Population Genetics (4)
- BIOL 572. Virology (4)
- BIOL 576. Endocrinology (4)
- BIOL 580. Neurobiology (4)

Additional courses which will be useful for medical school preparation include:

- CHEM 436A. Biochemistry I: Lecture
- CHEM 437A. Biochemistry II: Lecture
- CHEM 438A. Biochemistry III: Lecture

**B.S. IN BIOLOGY****Requirements (112-118 units)**

**Total units required for graduation: 180**

**Requirements for the B.S. in Biology:**

## Lower-division requirements (56-61 units)

1. BIOL 200. Biology of the Cell (5)
2. BIOL 201. Biology of Organisms (5)
3. BIOL 202. Biology of Populations (5)
4. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
5. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)

## 6. Organic chemistry

A minimum of twelve units chosen from Group A or B below:

**Group A:**

- CHEM 221A. Organic Chemistry I: Lecture (3)
- CHEM 221B. Organic Chemistry I: Laboratory (1)
- CHEM 222A. Organic Chemistry II: Lecture (3)
- CHEM 222B. Organic Chemistry II: Laboratory (1)
- CHEM 223A. Organic Chemistry III: Lecture (3)
- CHEM 223B. Organic Chemistry III: Laboratory (1)

**Group B:**

- CHEM 321. Principles of Organic Chemistry I (5)
- CHEM 322. Principles of Organic Chemistry II (5)
- CHEM 323. Principles of Organic Chemistry III (5)

**Note:** The requirement in organic chemistry may be met by the completion of one year of transferable organic chemistry course work from another institution of higher education.

7. Four units chosen from:
  - MATH 192. Methods of Calculus (4)
  - MATH 211. Basic Concepts of Calculus (4)
8. A minimum of thirteen units chosen from Group A or B below:

**Group A:**

- PHYS 121. Basic Concepts of Physics I (5)
- PHYS 122. Basic Concepts of Physics II (4)
- PHYS 123. Basic Concepts of Physics III (4)

**Group B:**

- PHYS 221. General Physics I (5)
- PHYS 222. General Physics II (5)
- PHYS 223. General Physics III (5)

## Upper-division requirements (56-57 units)

1. BIOL 300. Cell Physiology (5)
  2. BIOL 400. Molecular Biology (5)
  3. BIOL 421. Genetics (4)
  4. BIOL 422. Genetics Laboratory (1)
  5. Five units chosen from:
    - BIOL 450. Ecology (5)
    - BIOL 455. Marine Biology and Ecology (5)
  6. Either Group 1 or 2 below:
    - Group 1:**
      - BIOL 354. Biology of Higher Plants (6)
      - BIOL 424. Comparative Animal Physiology (6)
    - Group 2:**
      - BIOL 431. Comparative Plant Physiology (6)
- and one of the following:
- BIOL 331. Biology of Invertebrates (6)
  - BIOL 342. Biology of the Chordates (6)
7. BIOL 591. Biology Seminar (1)
  8. A minimum of 19 units of upper-division elective course work in biology (excluding BIOL 301, 304, 305, 306, 314, 349 and 503).

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9. Chemistry (4-5 units):  
A minimum of four units chosen from:  
CHEM 345. Modern Quantitative Analysis (5)  
CHEM 436A. Biochemistry I: Lecture (4)

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**B.S. IN BIOLOGY -****ECOLOGY AND EVOLUTION OPTION****Requirements (116-123 units)****Total units required for graduation: 180**

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**Requirements for the B.S. in Biology - Ecology and Evolution Option:**

Lower-division requirements (56-61 units)

- BIOL 200. Biology of the Cell (5)
- BIOL 201. Biology of Organisms (5)
- BIOL 202. Biology of Populations (5)
- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)

6. Organic chemistry  
A minimum of twelve units chosen from Group A or B below:

**Group A:**

- CHEM 221A. Organic Chemistry I: Lecture (3)  
CHEM 221B. Organic Chemistry I: Laboratory (1)  
CHEM 222A. Organic Chemistry II: Lecture (3)  
CHEM 222B. Organic Chemistry II: Laboratory (1)  
CHEM 223A. Organic Chemistry III: Lecture (3)  
CHEM 223B. Organic Chemistry III: Laboratory (1)

**Group B:**

- CHEM 321. Principles of Organic Chemistry I (5)  
CHEM 322. Principles of Organic Chemistry II (5)  
CHEM 323. Principles of Organic Chemistry III (5)

**Note:** The requirement in organic chemistry may be met by the completion of one year of transferable organic chemistry course work from another institution of higher education.

7. Four units chosen from:  
MATH 192. Methods of Calculus (4)  
MATH 211. Basic Concepts of Calculus (4)
8. A minimum of thirteen units chosen from Group A or B below:

**Group A:**

- PHYS 121. Basic Concepts of Physics I (5)  
PHYS 122. Basic Concepts of Physics II (4)  
PHYS 123. Basic Concepts of Physics III (4)

**Group B:**

- PHYS 221. General Physics I (5)  
PHYS 222. General Physics II (5)  
PHYS 223. General Physics III (5)

Upper-division requirements (60-62 units)

- BIOL 300. Cell Physiology (5)
- BIOL 321. Evolution (4)
- BIOL 400. Molecular Biology (5)
- BIOL 421. Genetics (4)
- BIOL 422. Genetics Laboratory (1)
- BIOL 450. Ecology (5)
- BIOL 590M. Senior Seminar: Conservation Biology (2)
- BIOL 591. Biology Seminar (1)
- Either Group 1 or 2 below:  
**Group 1:**  
BIOL 354. Biology of Higher Plants (6)  
BIOL 424. Comparative Animal Physiology (6)

**Group 2:**

- BIOL 431. Comparative Plant Physiology (6)  
and one of the following:  
BIOL 331. Biology of the Invertebrates (6)  
BIOL 342. Biology of the Chordates (6)
10. One course (4-6 units) chosen from the following list:  
BIOL 319. Local Flora (5)  
BIOL 455. Marine Biology and Ecology (5)  
BIOL 522. Population Genetics (4)  
BIOL 565. Physiological Ecology (6)
11. PSYC 410. Advanced Psychological Statistics (5)  
**Note:** Students should complete BIOL 450 before getting consent of the instructor to enroll in PSYC 410 without the formal prerequisite.
12. A minimum of 12 units of upper-division elective course work in biology (excluding BIOL 301, 304, 305, 306, 314, 349 and 503), selected in consultation with an advisor in the student's area of specialization.

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**B.S. IN BIOLOGY - PRE-MED OPTION****Requirements (112-115 units)****Total units required for graduation: 180**

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The Pre-med option will 1) satisfy the requirements for the B.S. in Biology; 2) satisfy the minimum requirements for entry to most medical schools; and 3) provide additional background courses which will improve preparation for medical school.

**Requirements for the B.S. in Biology - Pre-Med Option:**

Lower-division courses (56-58 units)

- BIOL 200. Biology of the Cell (5)
- BIOL 201. Biology of Organisms (5)
- BIOL 202. Biology of Populations (5)
- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
- Organic Chemistry (12 units)  
CHEM 221A. Organic Chemistry I: Lecture (3)  
CHEM 221B. Organic Chemistry I: Laboratory (1)  
CHEM 222A. Organic Chemistry II: Lecture (3)  
CHEM 222B. Organic Chemistry II: Laboratory (1)  
CHEM 223A. Organic Chemistry III: Lecture (3)  
CHEM 223B. Organic Chemistry III: Laboratory (1)
- Four units chosen from:  
MATH 192. Methods of Calculus (4)  
MATH 211. Basic Concepts of Calculus (4)
- A minimum of thirteen units, chosen from Group A or B below:

**Group A:**

- PHYS 121. Basic Concepts of Physics I (5)  
PHYS 122. Basic Concepts of Physics II (4)  
PHYS 123. Basic Concepts of Physics III (4)

**Group B:**

- PHYS 221. General Physics I (5)  
PHYS 222. General Physics II (5)  
PHYS 223. General Physics III (5)

Upper-division requirements (56-57 units)

- BIOL 300. Cell Physiology (5)
- BIOL 400. Molecular Biology (5)
- BIOL 421. Genetics (4)
- BIOL 422. Genetics Laboratory (1)
- Five units chosen from:  
BIOL 450. Ecology (5)  
BIOL 455. Marine Biology and Ecology (5)



6. Twelve units chosen from Group 1 or Group 2:
- Group 1:**  
 BIOL 354. Biology of Higher Plants (6)  
 BIOL 424. Comparative Animal Physiology (6)
- Group 2:**  
 BIOL 431. Comparative Plant Physiology (6)  
 and one of the following:  
 BIOL 331. Biology of Invertebrates (6)  
 BIOL 342. Biology of the Chordates (6)
7. A minimum of four units chosen from:  
 CHEM 345. Modern Quantitative Analysis (5)  
 CHEM 436A. Biochemistry I: Lecture (4)
8. BIOL 591. Biology Seminar (1)
9. A minimum of 19 units of upper-division elective course work in biology (excluding BIOL 301, 304, 305, 306, 314, 349 and 503). Suggested courses which may be useful for medical school preparation include:  
 BIOL 320. Microorganisms  
 BIOL 323. Human Anatomy for Biology Majors  
 BIOL 324. Human Physiology for Biology Majors  
 BIOL 371. Parasitology  
 BIOL 380. Medical and Economic Botany  
 BIOL 572. Virology  
 BIOL 573. Immunology  
 BIOL 576. Endocrinology  
 BIOL 580. Neurobiology
- Additional courses which will be useful for medical school preparation include:  
 CHEM 436A. Biochemistry I: Lecture  
 CHEM 437A. Biochemistry II: Lecture  
 CHEM 438A. Biochemistry III: Lecture

## B.S. IN BIOLOGY AND DOCTOR OF OSTEOPATHIC MEDICINE ARTICULATION PROGRAM

### Requirements (116-121 units)

#### Total units required for graduation: 186

An articulation program that guarantees admission to the Doctor of Osteopathic Medicine Program at Western University of Health Sciences is available on a competitive basis to a limited number of students. Biology majors may apply for admission to the program after completing Biology 200, 201 and 202 at CSUSB. Applicants will be screened by a joint committee from CSUSB and Western University of Health Sciences, and up to four students will be admitted annually. Candidates of the program who maintain a minimum grade point average of 3.3 in the required courses for the major, take the Medical College Admission Test (MCAT), and complete the specified course work will: 1) satisfy the requirements for the B.S. in Biology and 2) have a position reserved for them in the Doctor of Osteopathic Medicine program at Western University of Health Sciences for the year following completion of the B.S. degree. Additional information regarding application and admission to the program is available in the Biology Department Office.

### Requirements for the B.S. in Biology and Doctor of Osteopathic Medicine Articulation Program:

#### Lower-division courses (56-61 units)

- BIOL 200. Biology of the Cell (5)
- BIOL 201. Biology of Organisms (5)
- BIOL 202. Biology of Populations (5)
- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)

6. Organic Chemistry.  
 A minimum of twelve units, chosen from Group A or B below:

#### Group A:

- CHEM 221A. Organic Chemistry I: Lecture (3)  
 CHEM 221B. Organic Chemistry I: Laboratory (1)  
 CHEM 222A. Organic Chemistry II: Lecture (3)  
 CHEM 222B. Organic Chemistry II: Laboratory (1)  
 CHEM 223A. Organic Chemistry III: Lecture (3)  
 CHEM 223B. Organic Chemistry III: Laboratory (1)

#### Group B:

- CHEM 321. Principles of Organic Chemistry I (5)  
 CHEM 322. Principles of Organic Chemistry II (5)  
 CHEM 323. Principles of Organic Chemistry III (5)

7. Four units chosen from:

- MATH 192. Methods of Calculus (4)  
 MATH 211. Basic Concepts of Calculus (4)

8. A minimum of thirteen units, chosen from Group A or B below:

#### Group A:

- PHYS 121. Basic Concepts of Physics I (5)  
 PHYS 122. Basic Concepts of Physics II (4)  
 PHYS 123. Basic Concepts of Physics III (4)

#### Group B:

- PHYS 221. General Physics I (5)  
 PHYS 222. General Physics II (5)  
 PHYS 223. General Physics III (5)

#### Upper-division requirements (60 units)

- BIOL 300. Cell Physiology (5)
- BIOL 320. Microorganisms (6)
- BIOL 323. Human Anatomy for Biology Majors (6)
- BIOL 324. Human Physiology for Biology Majors (6)
- BIOL 354. Biology of Higher Plants (6)
- BIOL 400. Molecular Biology (5)
- BIOL 421. Genetics (4)
- BIOL 422. Genetics Laboratory (1)
- BIOL 424. Comparative Animal Physiology (6)
- Five units chosen from:  
 BIOL 450. Ecology (5)  
 BIOL 455. Marine Biology and Ecology (5)
- CHEM 436A. Biochemistry I: Lecture (4)
- CHEM 437A. Biochemistry II: Lecture (3)
- CHEM 438A. Biochemistry III: Lecture (3)

Other courses which may be used for preparation for the program include:

- BIOL 342. Biology of the Chordates (6)  
 BIOL 371. Parasitology (5)  
 BIOL 380. Medical and Economic Botany (4)  
 BIOL 572. Virology (4)  
 BIOL 573. Immunology (5)  
 BIOL 576. Endocrinology (4)  
 BIOL 580. Neurobiology (4)

## MINOR IN BIOLOGY

### Requirements (56 units)

#### Requirements for a minor in Biology:

- BIOL 200. Biology of the Cell (5)
- BIOL 201. Biology of Organisms (5)
- BIOL 202. Biology of Populations (5)
- BIOL 300. Cell Physiology (5)
- CHEM 206. Fundamentals of Chemistry II: Organic Chemistry (5)
- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)

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8. Four units chosen from:  
MATH 120. Pre-Calculus Mathematics (4)  
MATH 192. Methods of Calculus (4)  
MATH 211. Basic Concepts of Calculus (4)
9. Physics  
Five units chosen from:  
PHYS 100. Physics in the Modern World (5)  
PHYS 121. Basic Concepts of Physics I (5)  
PHYS 221. General Physics I (5)
10. A minimum of ten upper-division units (2 courses) in biology.

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**CERTIFICATE PROGRAM**

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Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. See Page 58 for additional certificate information.

**Certificate in Biotechnology****Admission to the Program**

1. One of the following:
  - A. Completion of the following core program of courses for students majoring in biology, chemistry or biochemistry:  
BIOL 200. Biology of the Cell  
BIOL 201. Biology of Organisms  
BIOL 202. Biology of Populations  
BIOL 300. Cell Physiology  
BIOL 421. Genetics  
BIOL 422. Genetics Laboratory  
CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding  
CHEM 216. General Chemistry II: Principles of Chemical Reactions  
CHEM 221A. Organic Chemistry I: Lecture  
CHEM 222A. Organic Chemistry II: Lecture  
CHEM 223A. Organic Chemistry III: Lecture
  - B. Completion of a B.A. or B.S. in Biology, Chemistry or Biochemistry at this university, or equivalent.

**Certificate Requirements (28 units)**

1. BIOL 400. Molecular Biology (5)
2. BIOL 502. Genetic Engineering (4)
3. BIOL 592. Recombinant DNA Techniques (4)
4. A minimum of 15 units chosen from:  
BIOL 320. Microorganisms (6)  
BIOL 573. Immunology (5)  
BIOL 575. Internship in Biology (2)  
BIOL 590A. Senior Seminar: Molecular (2)  
BIOL 596. Independent Research (2) (with a grade of "B" or better)  
CHEM 436A. Biochemistry I: Lecture (4)  
CHEM 436B. Biochemistry I: Laboratory (1)  
CHEM 437A. Biochemistry II: Lecture (3)  
CHEM 437B. Biochemistry II: Laboratory (1)  
CHEM 438A. Biochemistry III: Lecture (3)  
CHEM 438B. Biochemistry III: Laboratory (1)

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**TEACHING CREDENTIAL PROGRAM**

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**Teaching Credential Preparation Subject Matter Preparation Program in Science: Biology**

Biology students wishing to pursue a single subject teaching credential in science with a concentration in biology will need to take the CSET series examination. In order to learn the range of content covered in the CSET, it is recommended that the biology student should, in addition to the requirements for the Bachelor of Arts or Bachelor of Science in Biology, take the following courses:

1. ASTR 103. Descriptive Astronomy
2. GEOL 101. Physical Geology
3. GEOL 250. Historical Geology

In addition, certain prerequisites and professional education courses are required. For information about admission to the teacher education program, education courses required, or the specific requirements of the single subject teaching credential in science program, See Page 157 or contact the Department of Science, Mathematics, and Technology Education in the College of Education.

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**HONORS IN BIOLOGY**

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Candidacy for departmental honors in biology is voluntary. To be eligible a student must fulfill the following requirements:

1. Achieve a minimum grade point average of 3.5 for all courses satisfying the requirements for the major (as defined above);
2. Take at least five courses in the major at this university;
3. Satisfactorily complete BIOL 596. Independent Research;
4. Satisfactorily complete the departmental comprehensive examination.

Application for candidacy must be made at the beginning of the senior year. Approval of candidacy and of the project and project advisor rests with the department. The project advisor will have sole responsibility for acceptance of the completed project.

The department may grant honors to exceptional students who fail to meet the above requirements, but who have in the judgment of the department brought distinction upon themselves and the department in some other appropriate manner.

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**COURSE OFFERINGS IN BIOLOGY (BIOL)**

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**Lower Division****100. Topics in Biology**

Provides a broad understanding of biology, our molecular-organismic-ecological heritage and humankind's place within the biosphere. Four hours lecture and three hours laboratory. Materials fee required. (GE=B2) (5 units)

**200. Biology of the Cell**

Provides basic understanding of the process of life and the universality of life processes at the molecular and cellular level. Four hours lecture and three hours laboratory. A strong background equivalent to one year each of high school biology and chemistry is highly recommended. Materials fee required. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (BIOL 200+201+202=CAN BIOL SEQ A) (5 units)

**201. Biology of Organisms**

Provides basic understanding of the functional attributes of organisms and their diversity. Includes examination of their comparative and evolutionary relationships. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: BIOL 200 with a grade of "C" or better. (BIOL 200+201+202=CAN BIOL SEQ A) (5 units)

**202. Biology of Populations**

Provides a basic understanding of the principles of genetics, evolution and ecology of organisms, populations, and communities. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: BIOL 201 with a grade of "C" or better. (GE=B2) (BIOL 200+201+202=CAN BIOL SEQ A) (5 units)

**216. Genetics and Society**

Technological advances in human genetics and their impact on society. Biological and ethical perspectives of the application of genetic research. Two hours lecture. (GE=B4) (2 units)

**217. Biology of Sexually Transmitted Diseases**

The pathogenesis, biology of the agent, treatment and diagnosis of the prominent sexually transmitted diseases. Impact of current biotechnology in relation to vaccine development, experimental treatments, and improved diagnostics and screening. Two hours lecture. (GE=B4) (2 units)

**220. Principles of Microbiology**

Morphology, physiology and classification of bacteria, fungi and viruses. Microbiology of air, soil and dairy products; rudiments of infection and immunity. Laboratory training in culture preparation, sterilization, inoculation and identification. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: one lower-division biology course. (BIOL 100 is strongly recommended.) (BIOL 220=CAN BIOL 14) (5 units)

**223. Human Physiology and Anatomy I**

Comprehensive study of human form and function including living chemistry, cells, tissues, skeletal, muscular and nervous systems. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: one lower-division biology course. (BIOL 223+224=CAN BIOL SEQ B) (5 units)

**224. Human Physiology and Anatomy II**

Continuation of BIOL 223 with coverage of special senses, digestive, respiratory, cardiovascular, urinary, endocrine and reproductive systems. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: BIOL 223. (BIOL 223+224=CAN BIOL SEQ B) (5 units)

**251. Readings in Ecosystem Biology**

Selected assigned readings in ecosystem biology. For students formally enrolled in the University Honors Program and in BIOL 349. One hour of discussion. Prerequisite or corequisite: BIOL 349. Must be completed within two quarters of having completed BIOL 349. (1 unit)

**295. Special Projects in Biology**

Individual investigation, research, study or survey of selected problems. Prerequisite: consent of instructor. (1-2 units)

**Upper Division****300. Cell Physiology**

Study of cell properties, organization and activities; consideration of structure-function relationships of cellular membranes, the cell surface and cytoskeletal elements; metabolism of cell growth, maturation, specialized function and reproduction. Four hours lecture and three hours laboratory. Materials fee required. Students enrolling in this course for a third time may do so only with consent of the department. Prerequisites: BIOL 200, 201 and 202 with grades of "C" or better; CHEM 215 and 216. (5 units)

**301. Biology in the Classroom**

A comprehensive survey of the design and function of living organisms, from the cellular through the ecosystem levels as these relate to instruction in the elementary and middle school classroom. Unifying concepts such as evolution, energetics and the chemical nature of life will be stressed throughout. Three hours lecture and three hours laboratory. Materials fee required. This course does not satisfy any requirements for the B.A. or B.S. major in Biology. (4 units)

**304. Biology of Cancer**

A comprehensive survey of the biological principles underlying the causes and treatment of cancer. Topics include the genetics of cancer, factors affecting tumor growth, host defense against cancer cells, and modern therapeutic protocols. Four hours lecture. This course does not satisfy requirements for the B.A. and B.S. majors in biology. Prerequisite: BIOL 100. (4 units)

**305. Biology of the Dinosauria**

A survey of major groups of dinosaurs, their interrelationships, and biology. Examples from dinosaurs and their close relatives are used to highlight and explain important issues and topics in biology such as anatomy, evolution, biogeography, climate change, ecology, the use of the scientific literature, and popular interpretations of science. This course does not satisfy any requirements for the B.A. or B.S. in Biology. Four hours lecture. Prerequisite: one lower-division biology course. (4 units)

**306. Human Heredity and Development**

Introductory course in human development. Emphasis on the principles of heredity as they apply to normal human developmental sequences from fertilization to adolescence. Birth defects relating to heredity, and drug or other environmental factors will illustrate how developmental sequences can be modified before birth. This course does not satisfy any requirements for the B.A. or B.S. in Biology. Prerequisite: one lower-division biology course. (4 units)

**314. Biology of Human Sexuality**

Biological aspects of human anatomy, physiology and behavior as related to sexual reproduction including discussion of fertility, pregnancy, childbirth and birth control; consideration also given to homosexuality, sexually transmitted diseases, sexual intercourse and response. Four hours lecture. This course does not satisfy any requirements for the B.A. or B.S. in Biology. Prerequisite: one lower-division biology course. (4 units)

**319. Local Flora**

Identification of the flora and ecological communities of southern California with a consideration of taxonomic principles. Field collections, four hours lecture and three hours laboratory. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better or consent of instructor. (5 units)

**320. Microorganisms**

Study of microbial organisms: their cell structure and function, metabolism, genetics and ecology with an introduction to bacterial, viral, fungal, and protozoan pathogens. Four hours lecture and six hours laboratory. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better. (6 units)

**321. Evolution**

Darwin, views of evolution and their implications in various disciplines. Four hours lecture. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

**323. Human Anatomy for Biology Majors**

Comprehensive study of the human form in the broader context of vertebrate animals. Topics include the anatomy of early development and the following systems: integumentary, skeletal, muscular, nervous, digestive, respiratory, cardiovascular, excretory, reproductive, endocrine and special senses. Four hours lecture and six hours laboratory. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better. (6 units)

**324. Human Physiology for Biology Majors**

Comprehensive study of the human function in the broader context of vertebrate animals. Topics include the physiology of the following systems: integumentary, skeletal, muscular, nervous, digestive, respiratory, cardiovascular, excretory, reproductive, and endocrine and special senses. Four hours lecture and six hours laboratory. Materials fee required. Prerequisites: BIOL 300 with a grade of "C" or better. (6 units)

**331. Biology of Invertebrates**

The evolution and ecology of invertebrate phyla with emphasis on major phylogenetic changes. Field collections, four hours lecture and six hours laboratory. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better. (6 units)

**335. Entomology**

A study of the evolution, anatomy, classification and habits of insects and related arthropods. Field collections, four hours lecture and three hours laboratory. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better. (5 units)

**340. Comparative Embryology**

Descriptive survey of developmental patterns of tissue and organ formation to include studies of insects, echinoderms, and amphibian, avian, reptilian, marsupial plus placental mammalian vertebrate embryology. Three hours lecture and three hours laboratory. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better. Biology 342 strongly recommended. (4 units)

**342. Biology of the Chordates**

Structural, developmental and ecological changes in the evolution of the chordate groups with an emphasis on comparative vertebrate anatomy. Four hours lecture and six hours laboratory. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better. (6 units)

**349. Biology of Ecosystems**

Survey of the heredity and environmental factors that influence the survival and reproduction of the organisms that compose the dynamic ecosystems of planet Earth with a consideration of evolution and extinction. Four hours lecture and three hours laboratory. Materials fee required. This course does not satisfy requirements for the B.A. or B.S. in Biology. Formerly BIOL 250. Prerequisite: one lower division course in biology. (5 units)

**354. Biology of Higher Plants**

Comparative morphology of ferns, fern allies and seed plants, with a consideration of their phylogenetic relationships. Four hours lecture and six hours laboratory. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better. (6 units)

**371. Parasitology**

Study of the nature and principles of parasitism with a survey of various groups of animal parasites. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better. (5 units)

**380. Medical and Economic Botany**

Survey of medically and economically important plant species and families. Includes plants harmful and beneficial to humans, with emphasis on vascular species. Four hours lecture. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

**396. Directed Study**

Reading and library research in an area of biology conducted under the direction of a faculty member in the Department of Biology. No more than two units may be applied toward a biology elective for graduation. Graded credit/no credit. Prerequisites: consent of instructor and departmental approval of a written proposal submitted on a standard application form filed in advance of the quarter in which the course is to be taken. (1-2 units)

**400. Molecular Biology**

A basic course in molecular biology with emphasis on informational macromolecules and how they direct molecular processes in both eukaryotic and prokaryotic cells. Four hours lecture and three hours laboratory. Materials fee required. Prerequisites: BIOL 300 with a grade of "C" or better and CHEM 223 or 323. (5 units)

**421. Genetics**

Principles of classical and modern genetics including an introduction to population genetics. Four hours lecture. Concurrent enrollment in BIOL 422 is recommended. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

**422. Genetics Laboratory**

Laboratory experiments with *Drosophila melanogaster* to demonstrate Mendelian principles of inheritance, linkage mapping and determination of linkage groups to which a gene belongs. Three hours laboratory. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better. Prerequisite or corequisite: completion of or concurrent enrollment in BIOL 421. (1 unit)

**424. Comparative Animal Physiology**

A comparative analysis of the physiological mechanisms and processes of animals with emphasis on trends of evolutionary specialization. Four hours lecture and six hours laboratory. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better. (6 units)

**431. Comparative Plant Physiology**

Analysis of physiological activity at the various levels of cells, tissues, organs and organisms. Four hours lecture and six hours laboratory. Materials fee required. Prerequisites: BIOL 300 with a grade of "C" or better, and CHEM 223 or 323. (6 units)

**440. Principles of Development**

Comparative analysis of patterns and processes of development of organisms, with emphasis on the role of genetic and biochemical mechanisms. Four hours lecture and three hours laboratory. Materials fee required. Prerequisites: BIOL 300 with a grade of "C" or better, and CHEM 223 or 323. (5 units)

**450. Ecology**

Analysis of the interrelationships of organisms and their physical and biotic environment with a consideration of the role of the environment in natural selection. Four hours lecture and three hours laboratory/field studies. Materials fee required. Prerequisites: BIOL 300 with a grade of "C" or better; and MATH 120, 192 or 211; or consent of instructor. (5 units)



**455. Marine Biology and Ecology**

Examination of various marine ecosystems with an analysis of the interactions between organisms and their physical and biotic environments. Laboratory emphasizes southern Californian coastal communities. Four hours lecture and three hours laboratory/field studies. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better or consent of instructor. (5 units)

**490. Special Topics**

Group study of a selected topic, the title to be specified in advance. May be repeated for credit as topics change. Prerequisites: BIOL 300 with a grade of "C" or better and 15 units of upper-division biology course work.

- A. (1 unit)
- B. (2 units)
- C. (3 units)

**491. Special Laboratory Topics**

Group laboratory study of a selected topic, the title to be specified in advance. May be repeated for credit as topics change. Materials fee required. Prerequisites: BIOL 300 with a grade of "C" or better and 15 units of upper-division biology course work.

- A. (1 unit)
- B. (2 units)
- C. (3 units)

**502. Genetic Engineering**

Basic course on recombinant DNA technology, concentrating on major DNA manipulation methods, use of vectors, genetic probes, construction of libraries, transgenic animals, plant genetic engineering and ethical and safety considerations. Four hours lecture. Formerly BIOL 402. Prerequisites: BIOL 300 with a grade of "C" or better, BIOL 400, and CHEM 223 or 323. (4 units)

**503. Plant Biology for Teachers**

Examination of plant anatomy, morphology, physiology, ecology, and human use, as it applies to the Science Content Standards for California Public Schools. Not acceptable for meeting formal course requirements for the B.A., B.S., or M.S. in biology at CSUSB. Three hours lecture and three hours laboratory. Materials fee required. Prerequisites: one college-level biology course and graduate or post-baccalaureate standing, or consent of instructor. (4 units)

**522. Population Genetics**

Genetic and ecological mechanisms influencing the development, maintenance and evolution of populations. Four hours lecture. Prerequisites: BIOL 421, 422 and MATH 192 or 211. (4 units)

**524. Advanced Vertebrate Morphology**

Advanced techniques in the study of vertebrates, including dissection and specimen preparation. Construction of animal skeletal materials, and detailed study and dissection of vertebrate organ systems will provide the basis for projects designed on an individual student basis. Two hours lecture and three hours laboratory. Materials fee required. Prerequisites: BIOL 342, 424 and consent of instructor. (3 units)

**528. Concepts of Molecular Genetics**

Chemical nature of genes, their replication and mode of action at the molecular level. Transfer and expression of genetic information; interaction and hybridization of genes, molecular mutagens and molecular evolution. Four hours lecture. Formerly BIOL 428. Prerequisites: BIOL 300 with a grade of "C" or better, BIOL 400, 421, 422, and CHEM 223 or 323. (4 units)

**530. Scanning Electron Microscopy**

Theory and techniques of scanning electron microscopy. Lectures on theory of operation of the scanning electron microscope and specimen preparation. Laboratory includes hands-on training in the use of the scanning electron microscope. Laboratory projects will teach technical aspects of specimen preparation and microscope use. Three hours lecture and six hours laboratory. Materials fee required. (Also offered as GEOL 530. Students may not receive credit for both.) Prerequisites: senior standing and consent of instructor. (5 units)

**531. Transmission Electron Microscopy**

Theory and techniques of transmission electron microscopy. Lectures on theory of operation of the transmission electron microscope and specimen preparation. Laboratory includes hands-on training in the use of the transmission electron microscope. Laboratory projects will teach technical aspects of specimen preparation and microscope use. Three hours lecture and six hours laboratory. Materials fee required. (Also offered as GEOL 531. Students may not receive credit for both.) Prerequisites: senior standing and consent of instructor. (5 units)

**532. Techniques in Ultrastructure Analysis**

Specialized techniques in ultrastructural analysis using either the scanning or transmission electron microscope. Topics will vary, but will include specialized techniques in specimen preparation, alternative image detectors, and image analysis. Theory of the analysis and training in the technical aspects will be covered. Three hours lecture and six hours laboratory. Materials fee required. (Also offered as GEOL 532. Students may not receive credit for both.) Prerequisites: BIOL 530 or 531, or GEOL 530 or 531 and consent of instructor. (5 units)

**565. Physiological Ecology**

Physiological, biochemical and molecular attributes of organisms and their interactions with the environment. Explanations for distribution, survival and reproduction. Four hours lecture and six hours laboratory. Materials fee required. Prerequisites: BIOL 354 and 424; or 431 and 331 or 342; and 450. (6 units)

**572. Virology**

Examination of the structure, genetics and modes of replication of viruses, viroids and other related sub-cellular entities; their implications in medicine and agriculture, and their use in scientific research. Four hours lecture. Formerly BIOL 472. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

**573. Immunology**

Foundations of immunology and current advances in the study of the immunological response. Laboratory examination of immunological assays applied in both research and clinical diagnostics. Four hours lecture and three hours laboratory. Materials fee required. Formerly BIOL 476. Prerequisites: BIOL 300 with a grade of "C" or better. (5 units)

**575. Internship in Biology**

Supervised work and study in work situations involving biological research and technical skills. May be applied only once toward degree electives in biology programs. May be repeated twice for free elective credit. Graded credit/no credit. Prerequisite: department approval in the quarter prior to registration. (2 units)

**576. Endocrinology**

Endocrine systems with emphasis on mechanisms for regulating the biosynthesis, secretion, transport and actions of hormones. Four hours lecture. Formerly BIOL 486. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

**580. Neurobiology**

Study on a cellular level of how neurons function in terms of structure, physiology and pharmacology. Mechanisms of inter-cellular communication, perception of sensory information, and development and aging of the nervous system will be examined. Four hours lecture. Formerly BIOL 480. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

**590. Senior Seminar**

Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change. Prerequisites: BIOL 300 with a grade of "C" or better, and a minimum of 15 upper-division units in biology courses supportive of the topic area and senior standing.

- A. Molecular (2 units)
- B. Biosystematics (2 units)
- C. Cellular (2 units)
- D. Physiology (2 units)
- E. Ecology (2 units)
- F. Bioethics (2 units)
- G. Genetics (2 units)
- H. Evolution (2 units)
- I. Microbiology (2 units)
- J. Zoology (2 units)
- K. Botany (2 units)
- L. Integrative Approach to Biology (2 units)
- M. Conservation Biology (2 units)

**591. Biology Seminar**

Topics of current biological interest, presented by students, faculty, and guest speakers. May be taken once for credit toward the undergraduate major requirements in Biology. May be taken three times for credit toward elective units in the Master of Science program in Biology. Lecture only. Graded credit/no credit. Formerly BIOL 390. Prerequisite: BIOL 300 with a grade of "C" or better. (1 unit)

**592. Recombinant DNA Techniques**

Techniques utilized in genetic engineering and biotechnology areas (mainly methods for isolating and analyzing genes, including bacterial isolation, DNA isolation and restriction analysis, transformation protocols and purification and manipulation of plasmid and chromosomal DNA techniques). A final research report will be required from the student. Two hours lecture and six hours laboratory. Materials fee required. Formerly BIOL 492. Prerequisites: BIOL 300 with a grade of "C" or better and BIOL 400. (4 units)

**596. Independent Research**

Laboratory and/or field research in selected areas in biology conducted under the direction of a faculty member. A total of six units in BIOL 596 may be applied toward graduation. Graded credit/no credit. Formerly BIOL 595. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. Consent must be obtained no later than the advisement period preceding the quarter of enrollment. All students will be required to attend the Biology Department colloquium called by the department chair each quarter until their projects are completed. (1-6 units)

**597. Directed Study in Science Education**

Readings and library research on the pedagogical content knowledge of a specific area of biology. This course should be taken concurrently with or shortly after taking an upper division course in the relevant area of biology. Graded credit/no credit. May be repeated for credit. No more than four units may be applied toward degree requirements for the BA in Biology-Integrated Teaching Credential Option; no more than two units may be applied toward biology elective requirements in other degree options. Prerequisites: consent of instructor and departmental approval of a written proposal submitted on a standard application form filed in advance of the quarter in which the course is to be taken. (1 unit)

# CHEMISTRY

Accredited by the American Chemical Society

## Department of Chemistry and Biochemistry

Chemical Science Building, Room CS-204  
(909) 537-5318 <http://chem.csusb.edu/>

### Bachelor of Arts

Chemistry  
Chemistry  
Biochemistry Option

### Bachelor of Science

Bioinformatics (See Page 106.)  
Chemistry  
ACS Certified Option  
Biochemistry Option

### Master of Science

Environmental Sciences  
(Degree requirements can be found on Page 452.)

### Teaching Credential Preparation Program

Chemistry

### Minor

Chemistry

**FACULTY:** Kimberley Cousins, John Craig (Emeritus), Lee Kalbus (Emeritus), Yu Jung Kim, Ken Mantei (Emeritus), David Maynard (Chair), Larry Mink, James Noblet, Dennis Pederson, Ralph Petrucci (Emeritus), Lisa Shamansky, Douglas Smith, Brett Stanley, John Tate, Shumei Yang

The Department of Chemistry and Biochemistry provides:

1. Undergraduate training in chemistry and biochemistry for students planning professional careers in chemistry and allied professions such as medicine, dentistry, pharmacy, health sciences and veterinary medicine and for those contemplating graduate work for advanced degrees;
2. Appropriate courses for the teacher credential program;
3. Fundamental chemical science courses required by students majoring in related fields such as physics and biology;
4. An understanding of the achievements and contributions of chemistry as a science.

The Bachelor of Science in Chemistry (ACS Certified Option) satisfies the requirements for certification by the American Chemical Society.

The Bachelor of Arts in Chemistry provides greater elective flexibility for double majors and for preprofessional, interdisciplinary or other programs involving substantial preparation in chemistry.

Preprofessional students of medicine, dentistry or other science-based fields seeking a major in chemistry should See Page 63 of this catalog and consult with a departmental advisor.

Students interested in fields such as environmental science, environmental law, business, and clinical chemistry can pursue these by following the minimum requirements of the major and appropriate electives.

## B.A. IN CHEMISTRY - CHEMISTRY OPTION

### Requirements (83 to 85 units)

**Total units required for graduation: 180**

### Requirements for the B.A. in Chemistry - Chemistry Option:

Lower-division requirements (42-44 units)

1. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
2. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
3. MATH 211. Basic Concepts of Calculus (4)
4. MATH 212. Calculus II (4)
5. MATH 213. Calculus III (4)
6. One year of introductory physics (CAN Physics Sequence A or CAN Physics Sequence B for at least 13 quarter units). CSUSB physics sequences that satisfy this requirement are:

#### Sequence A:

- PHYS 121. Basic Concepts of Physics I (5)  
PHYS 122. Basic Concepts of Physics II (4)  
PHYS 123. Basic Concepts of Physics III (4)

#### Sequence B:

- PHYS 221. General Physics I (5)  
PHYS 222. General Physics II (5)  
PHYS 223. General Physics III (5)

7. Biological science

Five units chosen from:

- BIOL 100. Topics in Biology (5)  
BIOL 200. Biology of the Cell (5)

Upper-division requirements (41 units)

1. CHEM 321. Principles of Organic Chemistry I (5)
2. CHEM 322. Principles of Organic Chemistry II (5)
3. CHEM 323. Principles of Organic Chemistry III (5)

**Note:** Subject to departmental approval the organic chemistry requirement may be met with the following:

- CHEM 221A. Organic Chemistry I: Lecture  
CHEM 221B. Organic Chemistry I: Laboratory  
CHEM 222A. Organic Chemistry II: Lecture  
CHEM 222B. Organic Chemistry II: Laboratory  
CHEM 223A. Organic Chemistry III: Lecture  
CHEM 223B. Organic Chemistry III: Laboratory  
CHEM 421. Intermediate Organic Chemistry
4. CHEM 345. Modern Quantitative Analysis (5)
  5. CHEM 455. Physical Chemistry I (5)
  6. CHEM 456. Physical Chemistry II (5)
  7. CHEM 475. Inorganic Chemistry (5)
  8. CHEM 590A. Chemistry Seminar I (1)
  9. CHEM 590B. Chemistry Seminar II (1)
  10. Four additional upper-division units in chemistry.

## B.A. IN CHEMISTRY - BIOCHEMISTRY OPTION

### Requirements (102 to 106 units)

**Total units required for graduation: 180**

### Requirements for the B.A. in Chemistry - Biochemistry Option:

Lower-division requirements (64-66 units)

1. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
2. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
3. MATH 211. Basic Concepts of Calculus (4)
4. MATH 212. Calculus II (4)

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5. MATH 213. Calculus III (4)
6. One year of introductory physics (CAN Physics Sequence A or CAN Physics Sequence B for at least 13 quarter units). CSUSB physics sequences that satisfy this requirement are:

### Sequence A:

- PHYS 121. Basic Concepts of Physics I (5)
- PHYS 122. Basic Concepts of Physics II (4)
- PHYS 123. Basic Concepts of Physics III (4)

### Sequence B:

- PHYS 221. General Physics I (5)
- PHYS 222. General Physics II (5)
- PHYS 223. General Physics III (5)

7. BIOL 200. Biology of the Cell (5)
8. BIOL 201. Biology of Organisms (5)
9. BIOL 202. Biology of Populations (5)

### 10. Organic Chemistry

A minimum of 12 units chosen from:

- CHEM 221A. Organic Chemistry I: Lecture (3)
- CHEM 221B. Organic Chemistry I: Laboratory (1)
- CHEM 222A. Organic Chemistry II: Lecture (3)
- CHEM 222B. Organic Chemistry II: Laboratory (1)
- CHEM 223A. Organic Chemistry III: Lecture (3)
- CHEM 223B. Organic Chemistry III: Laboratory (1)

**Note:** Organic Chemistry requirement may be met by taking CHEM 321, 322 and 323.

### Upper-division requirements (38-40 units)

1. CHEM 345. Modern Quantitative Analysis (5)
2. CHEM 436A. Biochemistry I: Lecture (4)
3. CHEM 436B. Biochemistry I: Laboratory (1)
4. CHEM 437A. Biochemistry II: Lecture (3)
5. CHEM 437B. Biochemistry II: Laboratory (1)
6. CHEM 438A. Biochemistry III: Lecture (3)
7. CHEM 438B. Biochemistry III: Laboratory (1)
8. Ten units chosen from Group A or B below:

#### Group A:

- CHEM 451. Physical Chemistry for Biochemists I (5)
- CHEM 452. Physical Chemistry for Biochemists II (5)

#### Group B:

- CHEM 455. Physical Chemistry I (5)
- CHEM 456. Physical Chemistry II (5)

### 9. One course chosen from:

- CHEM 470. Bioinorganic Chemistry (3)
- CHEM 475. Inorganic Chemistry (5)

10. CHEM 590A. Chemistry Seminar I (1)
11. CHEM 590B. Chemistry Seminar II (1)
12. BIOL 300. Cell Physiology (5)

## B.S. IN CHEMISTRY - ACS CERTIFIED OPTION

### Requirements (108 units)

**Total units required for graduation: 186**

### Requirements for the B.S. in Chemistry - ACS Certified Option:

#### Lower-division requirements (48 units)

1. BIOL 200. Biology of the Cell (5)
2. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
3. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
4. MATH 211. Basic Concepts of Calculus (4)
5. MATH 212. Calculus II (4)
6. MATH 213. Calculus III (4)
7. MATH 251. Multivariable Calculus I (4)
8. PHYS 221. General Physics I (5)

9. PHYS 222. General Physics II (5)
10. PHYS 223. General Physics III (5)

#### Upper-division requirements (56 units)

1. CHEM 321. Principles of Organic Chemistry I (5)
2. CHEM 322. Principles of Organic Chemistry II (5)
3. CHEM 323. Principles of Organic Chemistry III (5)

**Note:** Subject to departmental approval the organic chemistry requirement may be met with the following:

- CHEM 221A. Organic Chemistry I: Lecture
- CHEM 221B. Organic Chemistry I: Laboratory
- CHEM 222A. Organic Chemistry II: Lecture
- CHEM 222B. Organic Chemistry II: Laboratory
- CHEM 223A. Organic Chemistry III: Lecture
- CHEM 223B. Organic Chemistry III: Laboratory
- CHEM 421. Intermediate Organic Chemistry

4. CHEM 345. Modern Quantitative Analysis (5)
5. CHEM 436A. Biochemistry I: Lecture (4)
6. CHEM 436B. Biochemistry I: Laboratory (1)
7. CHEM 455. Physical Chemistry I (5)
8. CHEM 456. Physical Chemistry II (5)
9. CHEM 475. Inorganic Chemistry (5)
10. CHEM 545. Instrumental Analysis (6)
11. CHEM 576. Advanced Inorganic Chemistry (4)
12. CHEM 590A. Chemistry Seminar I (1)
13. CHEM 590B. Chemistry Seminar II (1)
14. Four additional upper-division units in chemistry.

#### Additional Requirements (4 units)

1. Applied mathematics  
Four units chosen from:  
MATH 252. Multivariable Calculus II (4)  
MATH 270. Elementary Differential Equations (4)  
MATH 331. Linear Algebra (4)
2. CHEM 999. Comprehensive Examination (0) covering the major field of study, to be taken during the senior year.

## B.S. IN CHEMISTRY - BIOCHEMISTRY OPTION

### Requirements (109 to 115 units)

**Total units required for graduation: 180-183**

### Requirements for the B.S. in Chemistry - Biochemistry Option:

#### Lower-division requirements (52-54 units)

1. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
2. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
3. MATH 211. Basic Concepts of Calculus (4)
4. MATH 212. Calculus II (4)
5. MATH 213. Calculus III (4)
6. One year of introductory physics (CAN Physics Sequence A or CAN Physics Sequence B) for at least 13 quarter units. CSUSB physics sequences that satisfy this requirement are:  
**Sequence A:**  
PHYS 121. Basic Concepts of Physics I (5)  
PHYS 122. Basic Concepts of Physics II (4)  
PHYS 123. Basic Concepts of Physics III (4)  
**Sequence B:**  
PHYS 221. General Physics I (5)  
PHYS 222. General Physics II (5)  
PHYS 223. General Physics III (5)
7. BIOL 200. Biology of the Cell (5)
8. BIOL 201. Biology of Organisms (5)
9. BIOL 202. Biology of Populations (5)



## Upper-division requirements (57-61 units)

- CHEM 321. Principles of Organic Chemistry I (5)
  - CHEM 322. Principles of Organic Chemistry II (5)
  - CHEM 323. Principles of Organic Chemistry III (5)
- Note:** Subject to departmental approval the organic chemistry requirement may be met with the following:
- CHEM 221A. Organic Chemistry I: Lecture
  - CHEM 221B. Organic Chemistry I: Laboratory
  - CHEM 222A. Organic Chemistry II: Lecture
  - CHEM 222B. Organic Chemistry II: Laboratory
  - CHEM 223A. Organic Chemistry III: Lecture
  - CHEM 223B. Organic Chemistry III: Laboratory
  - CHEM 421. Intermediate Organic Chemistry
- CHEM 345. Modern Quantitative Analysis (5)
  - CHEM 436A. Biochemistry I: Lecture (4)
  - CHEM 436B. Biochemistry I: Laboratory (1)
  - CHEM 437A. Biochemistry II: Lecture (3)
  - CHEM 437B. Biochemistry II: Laboratory (1)
  - CHEM 438A. Biochemistry III: Lecture (3)
  - CHEM 438B. Biochemistry III: Laboratory (1)
  - 10 units, choose Group A or B below:
- Group A:**
- CHEM 451. Physical Chemistry for Biochemists I (5)
  - CHEM 452. Physical Chemistry for Biochemists II (5)
- Group B:**
- CHEM 455. Physical Chemistry I (5)
  - CHEM 456. Physical Chemistry II (5)
- One course chosen from:
    - CHEM 470. Bioinorganic Chemistry (3)
    - CHEM 475. Inorganic Chemistry (5)
  - CHEM 590A. Chemistry Seminar I (1)
  - CHEM 590B. Chemistry Seminar II (1)
  - BIOL 300. Cell Physiology (5)
  - One course chosen from:
    - BIOL 320. Microorganisms (6)
    - BIOL 400. Molecular Biology (5)
    - BIOL 421. Genetics (4)
    - BIOL 424. Comparative Animal Physiology (6)
    - BIOL 431. Comparative Plant Physiology (6)
    - BIOL 440. Principles of Development (5)
    - BIOL 580. Neurobiology (4)
  - CHEM 999. Comprehensive Examination (0) covering the major field of study, to be taken during the senior year.

**TEACHING CREDENTIAL PROGRAM****Teaching Credential Subject Matter Preparation Program in Science: Chemistry**

Chemistry majors pursuing a single subject teaching credential in science with a chemistry specialization will need to take the CSET Exam to verify subject matter competence. To prepare for the CSET exam, the following courses are recommended as part of, or in addition to the chemistry degree.

- ASTR 103. Descriptive Astronomy (5)
- BIOL 200. Biology of the Cell (5)
- BIOL 201. Biology of Organisms (5)
- BIOL 202. Biology of Populations (5)
- GEOL 101. Introductory Geology (5)
- GEOL 250. Historical Geology (5)
- NSCI 300. Science and Technology (4)

In addition, certain prerequisites and professional education courses are required. For information about admission to the teacher education program, education courses required or the specific requirements of the single subject teaching credential in science program, see Page 157 or contact the Department of Science, Mathematics and Technology Education in the College of Education.

**MINOR IN CHEMISTRY****Requirements (56 to 61 units)****Requirements for a minor in Chemistry:**

- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
- A minimum of twelve units, choose Group A or B below:
 

**Group A:**

  - CHEM 221A. Organic Chemistry I: Lecture (3)
  - CHEM 221B. Organic Chemistry I: Laboratory (1)
  - CHEM 222A. Organic Chemistry II: Lecture (3)
  - CHEM 222B. Organic Chemistry II: Laboratory (1)
  - CHEM 223A. Organic Chemistry III: Lecture (3)
  - CHEM 223B. Organic Chemistry III: Laboratory (1)

**Group B:**

  - CHEM 321. Principles of Organic Chemistry I (5)
  - CHEM 322. Principles of Organic Chemistry II (5)
  - CHEM 323. Principles of Organic Chemistry III (5)
- CHEM 345. Modern Quantitative Analysis (5)
- Four units chosen from:
  - MATH 192. Methods of Calculus (4)
  - MATH 212. Calculus II (4)
- One year of introductory physics (CAN Physics Sequence A or CAN Physics Sequence B for at least 12 quarter units.) CSUSB physics sequences that satisfy this requirement are:
 

**Sequence A:**

  - PHYS 121. Basic Concepts of Physics I (5)
  - PHYS 122. Basic Concepts of Physics II (4)
  - PHYS 123. Basic Concepts of Physics III (4)

**Sequence B:**

  - PHYS 221. General Physics I (5)
  - PHYS 222. General Physics II (5)
  - PHYS 223. General Physics III (5)
- Ten additional upper-division units in chemistry. CHEM 590A and 590B may not be used to satisfy this requirement.

**DEPARTMENTAL HONORS**

A graduating senior will be awarded departmental honors in chemistry after meeting the following requirements:

- At least a 3.5 average in all chemistry course work taken at the university with a minimum being five chemistry courses;
- At least a 3.0 ("B") average on the comprehensive examinations;
- An "A" (4.0) in CHEM 595. Independent Study or another demonstration of ability to do independent work in chemistry.

**COURSE OFFERINGS IN****CHEMISTRY (CHEM)****Lower Division****100. Chemistry in the Modern World (FWS)**

Examination of chemistry and its value to contemporary society. Topics include atomic and molecular structure, bonding, physical and chemical change, solutions and other important chemical principles related to everyday observable phenomena. In laboratory, the scientific method is employed to design experiments, test hypotheses, formulate chemical principles and interpret experiment results. Designed for those desiring a broad overview of chemistry including liberal studies majors. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (GE=B3) (5 units)

**105. Chemicals in Our Environment (FWS)**

Examination of a current issue related to chemicals in our environment with focus on chemical principles and the interplay between chemical technology and society. Lecture only. (GE=B4) (2 units)

**205. Fundamentals of Chemistry I: General Chemistry (FWS)**

Basic introduction to the concepts of chemistry, including the composition of matter and physical and chemical changes. Designed primarily for the student with little or no chemistry background who plans to take additional chemistry or other science courses. Four hours lecture and three hours laboratory. Materials fee required. Prerequisites: one year of high school algebra. Prerequisite or corequisite: MATH 90 or above. (GE=B3) (5 units)

**206. Fundamentals of Chemistry II: Organic Chemistry (W)**

Introduction to the chemistry of organic compounds. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: CHEM 205 or 215. (5 units)

**207. Fundamentals of Chemistry III: Biochemistry (S)**

Introduction to the principles of modern biological chemistry and to organic compounds of biological interest. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: CHEM 206. (5 units)

**208. Survey of Human Biochemistry (FWS)**

Survey of basic biochemical principles with an emphasis on the structure, function and metabolism of important biological molecules as related to human physiology. Three hours lecture. Prerequisite: CHEM 205. (3 units)

**215. General Chemistry I: Atomic Structure and Chemical Bonding (FW)**

Stoichiometry, atomic and molecular structure, chemical bonding, states of matter and solutions. Designed primarily for the student majoring in the biological or physical sciences. Four hours lecture, three hours laboratory, and one hour recitation. Materials fee required. Prerequisites: one year of high school chemistry and three years of high school mathematics, or their equivalents; completion of, concurrent enrollment in or qualification for Math 110 by Entry Level Mathematics examination. (GE=B3) (CHEM 215+216=CAN CHEM SEQ A) (6 units)

**216. General Chemistry II: Principles of Chemical Reactions (WS)**

Chemical kinetics and equilibrium, thermodynamics, redox reactions and electrochemistry, and topics in inorganic, organic, biological and environmental chemistry. Four hours lecture and six hours laboratory. Materials fee required. Prerequisite: CHEM 215 with a grade of "C-" or better. (CHEM 215+216=CAN CHEM SEQ A) (6 units)

**221. Organic Chemistry I (F)**

A. Lecture. The chemistry of carbon compounds, including modern concepts of structure, mechanism, and reactivity. Emphasis is placed on compounds and reactions of biological interest; and includes an introduction to selected topics in biochemistry. Taking the lecture sequence (CHEM 221A, 222A, and 223A) without the lab sequence (CHEM 221B, 222B, and 223B) is inappropriate for premedical, pre dental and other pre-health professions students and for all majors and minors except the B.A. major in biology. Chemistry majors (except the B.A. in Chemistry, Biochemistry Option) are expected to take the Principles of Organic Chemistry

sequence (CHEM 321, 322 and 323). Lecture only. Prerequisite: CHEM 215. (3 units)

B. Laboratory. An introduction to experimental techniques in organic chemistry. Three hours of laboratory. Materials fee required. Prerequisite: CHEM 215. Prerequisite or corequisite: CHEM 221A. (1 unit)

**222. Organic Chemistry II (W)**

A. Lecture. Continuation of CHEM 221A. Three hours lecture. Prerequisite: CHEM 221A with a grade of "C-" or better. (3 units)  
B. Laboratory. Continuation of CHEM 221B. Three hours laboratory. Materials fee required. Prerequisite: CHEM 221B. Prerequisite or corequisite: CHEM 222A. (1 unit)

**223. Organic Chemistry III (S)**

A. Lecture. Continuation of CHEM 222A. Three hours lecture. Prerequisite: CHEM 222A or equivalent with a grade of "C-" or better. (3 units)  
B. Laboratory. Continuation of CHEM 222B. Three hours laboratory. Materials fee required. Prerequisite: CHEM 222B. Prerequisite or corequisite: CHEM 223A. (1 unit)

**295. Special Projects in Chemistry (FWS)**

Individual investigation, research, study or survey of selected problems. May be repeated for credit as topics change. Prerequisite: consent of instructor. (1-2 units)

**Upper Division****301. Service Learning in Chemistry (FWS)**

Supervised activities in chemistry or chemical education providing service to campus or community constituents. At least 30 hours required for credit. May be repeated for credit. May not be counted for credit for the chemistry major. Graded credit/no credit. Prerequisites: consent of instructor and pertinent course work. (1 unit)

**321. Principles of Organic Chemistry I (F)**

Detailed study of organic molecules and their structures, reaction mechanisms, stereochemistry and synthesis. Three hours lecture and six hours laboratory. Materials fee required. Prerequisite: CHEM 216. (5 units)

**322. Principles of Organic Chemistry II (W)**

Continuation of CHEM 321. Three hours lecture and six hours laboratory. Materials fee required. Prerequisite: CHEM 321 with a grade of "C-" or better. (5 units)

**323. Principles of Organic Chemistry III (S)**

Continuation of CHEM 322, including special topics in heterocyclic compounds, fats, carbohydrates, and amino acids and proteins. Three hours lecture and six hours laboratory. Materials fee required. Prerequisite: CHEM 322 with a grade of "C-" or better. (5 units)

**345. Modern Quantitative Analysis (FS)**

Gravimetric and volumetric analysis, chemical equilibria, and modern instrumental methods. Three hours lecture and six hours laboratory. Materials fee required. Formerly CHEM 245. Prerequisite: CHEM 216. (5 units)

**392. Scientific Glassblowing (W)**

Principles and skills in the construction, modification and repair of scientific glass apparatus. May not be counted as upper-division elective units for the B.S. in Chemistry degree, ACS Certified Option. Prerequisite: consent of instructor. (2 units)

**421. Intermediate Organic Chemistry (S-alt yr)**

Organic reaction mechanisms, quantitative identification of organic compounds, and instrumental organic analysis. May not be counted as upper-division elective units for a chemistry degree. Three hours lecture and six hours laboratory. Materials fee required. Prerequisite: CHEM 223 or equivalent course work. (5 units)

**436. Biochemistry I (FW)**

- A. Lecture. Structure and function of proteins, carbohydrates, and lipids. Four hours lecture. Formerly CHEM 436. Prerequisites: BIOL 200 and CHEM 216, and either CHEM 223 or 323. (4 units)
- B. Laboratory. Introduction to experimental techniques in biochemistry and biotechnology. Three hours laboratory. Formerly CHEM 436. Prerequisite or corequisite: CHEM 436A. (1 unit)

**437. Biochemistry II (WS)**

- A. Lecture. Mechanism and kinetics of enzymes; metabolism of carbohydrates, lipids, and proteins. Three hours lecture. Prerequisite: CHEM 436A with a grade of "C-" or better. (3 units)
- B. Laboratory. Continuation of CHEM 436B. Three hours laboratory. Materials fee required. Prerequisite: CHEM 436B. Prerequisite or corequisite: CHEM 437A. (1 unit)

**438. Biochemistry III (SF)**

- A. Lecture. Structure, function, and metabolism of nucleotides and nucleic acids with an emphasis on molecular mechanisms of nucleotide synthesis and degradation, replication, transcription, translation and regulation of gene expression. Three hours lecture. Prerequisite: CHEM 437A with a grade of "C-" or better. (3 units)
- B. Laboratory. Continuation of CHEM 437B. Three hours laboratory. Materials fee required. Prerequisite: CHEM 437B. Prerequisite or corequisite: CHEM 438A. (1 unit)

**451. Physical Chemistry for Biochemists I (W)**

Thermodynamics of single and multi-component systems, properties of non-electrolyte and electrolyte solutions with an emphasis on biomolecular systems. May not be counted for upper-division elective units for a B.A. in Chemistry, Chemistry Option or B.S. in Chemistry, ACS Certified Option. Four hours lecture and three hours laboratory. Materials fee required. Prerequisites: CHEM 216, 436A, and 436B; CHEM 223 or 323; MATH 213; and PHYS 123 or 223. (5 units)

**452. Physical Chemistry for Biochemists II (S)**

Phase equilibria, transport properties, electron transfer reactions, and reaction kinetics, with an emphasis on biomolecular systems. Quantum mechanical and physical principles as applied to molecular structure and spectroscopy. May not be counted for upper-division elective units for a B.A. or B.S. in Chemistry, Chemistry Option or a B.S. in Chemistry, ACS Certified Option. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: CHEM 451. (5 units)

**455. Physical Chemistry I (F)**

Gas kinetics, thermodynamics, properties of solutions, phase equilibria, electrochemistry, and surface phenomena. Four hours lecture and three hours laboratory. Materials fee required. Prerequisites: CHEM 216, MATH 213, and PHYS 123 or 223. Recommended: MATH 251. (5 units)

**456. Physical Chemistry II (W)**

Quantum mechanics, reaction rates and mechanisms, and crystal structure. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: CHEM 455. (5 units)

**470. Bioinorganic Chemistry (F)**

Principles of inorganic chemistry emphasizing metals in biological systems. Course will cover coordination chemistry and physical techniques used to probe activity. A survey of the types of metalloproteins and metalloenzymes and their biological functions. Detailed case studies of selected metalloproteins. May not be counted for upper division elective units for a B.A. in Chemistry, Chemistry Option or B.S. in Chemistry, ACS Certified Option. Prerequisites: CHEM 223 or 323 and 216. Recommended: CHEM 436A and 436B. (3 units)

**475. Inorganic Chemistry (S)**

Inorganic compounds and reactions. Special emphasis on symmetry, structure, kinetics, and thermodynamic principles. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite or corequisite: CHEM 452 or 456. (5 units)

**500. Topics in Chemistry (WS)**

Lecture course on an advanced chemistry topic such as: advanced organic chemistry, computational chemistry, environmental chemistry, literature in chemistry, medicinal chemistry, polymer chemistry, and spectroscopy. May be repeated for credit as topics change. Lecture only. Prerequisite: consent of instructor. (2 units)

**501. Advanced Laboratory Techniques (FWS)**

Advanced laboratory course on a subject relative to one of the main divisions of chemistry. May be repeated for credit, however only four units may be counted as upper division elective units for either a major or minor in chemistry. Final written report required. Prerequisites: the basic course covering the subject of the Advanced Laboratory Techniques course and consent of instructor. (1-2 units)

**545. Instrumental Analysis (S-alt yr)**

Principles and techniques of modern instrumental analysis, including spectrophotometry, spectroscopy, chromatography, X-ray analysis, mass spectrometry and potentiometry. Four hours lecture and six hours laboratory. Materials fee required. Prerequisites: CHEM 223 or 323, 345 and 452 or 456. (6 units)

**575. Internship in Chemistry (FWS)**

Supervised work and study in applied chemistry in an on- or off-campus setting. Final written report may be required. May be repeated for credit with department consent. A total of four units may be applied towards obtaining a bachelors degree and a total of five units may be applied towards obtaining a masters degree. Graded credit/no credit. Prerequisites: course work appropriate to the specific internship and consent of department. (1-5 units)

**576. Advanced Inorganic Chemistry (F-alt yr)**

Current developments in inorganic chemistry, including coordination chemistry, non-metals and metalloids. Lecture only. Prerequisite: CHEM 456 and either CHEM 223 or 323. (4 units)

**590. Chemistry Seminar (FWS)**

Topics of current chemical interest, presented by students, faculty and guest speakers. To be taken once for credit toward the major requirements for graduation. Prerequisites: twelve upper-division units in chemistry, and NSCI 306 or equivalent.

- A. I. Lecture only. Final written report required. (1 unit)
- B. II. Oral presentation required. Prerequisite: CHEM 590A. (1 unit)

**595. Independent Study (FWS)**

Laboratory and/or library research conducted under the direction of a faculty member. Final written report required. A total of six units in CHEM 595 may be applied toward the major. Prerequisites: a minimum overall grade point average of 2.5, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-6 units)

**999. Comprehensive Examination**

Assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and good academic standing. (0 units)

**Graduate level courses can be found on Page 376.**



# COMMUNICATION

## Department of Communication Studies

University Hall, Room 018

(909) 537-5815 <http://communication.csusb.edu>

### Bachelor of Arts

Communication  
with concentrations in  
Human Communication  
Intercultural Communication  
Mass Communication  
Public Argumentation and Rhetoric  
Public Relations

### Teacher Preparation Program

English - Communication Studies Concentration

### Minor

Communication  
Film Studies  
Intercultural Communication  
Public Relations  
Script Writing

### Certificate Programs

Communication Skills  
Conflict Management (See Page 379.)

### Master of Arts

Communication Studies  
(Degree requirements can be found on Page 377.)

**FACULTY:** Ece Algan, Mo Bahk (Chair), Nathan Carter, Rueyling Chuang, Risa Dickson, Mary Fong, Donna Gotch, Jo Anna Grant, Brian Heisterkamp, Heather Hundley, Fred Jandt, Robin Larsen, C. Rod Metts, Ahlam Muhtaseb, Bradford Owen, Mihaela Popescu, Scott Rodriguez

Defined as "the creation, transmission and evaluation of messages," communication is a multifaceted discipline combining both academic and professional interests.

Through courses in communication, students learn to describe, interpret and evaluate the communication processes as they occur within and among individuals, groups, organizations and societies. Students explore problems in diverse media (platform, conference, print, radio, television, film, computer mediated communication), settings (family, industrial, professional, governmental) and contexts (racial, cultural, international).

The educational objectives established for the degree program in communication are the following terminal competencies: understand relationships between symbols and culture, discover information from its sources, describe characteristics of potential audiences, translate information into an audience's conceptual framework, transmit information/messages clearly in media appropriate to the audience, evaluate messages and their effects on audiences and appreciate the ethics of communication.

By the mid-1980s more than half of the country's gross national product was spent on information products and services. Communication is the means by which information is shared. The growth of communication studies reflects, in part, a growing technology permitting spoken language to move from the forum of Greece to the surface of the moon and around the planet in mere moments.

Communication majors enter careers in business and industry, government and social services, education, media and the professions in positions of public relations, marketing, teaching, sales, media production, writing, personnel, on-air media, advertising and training. Men and women across the ages have testified how the study of communication aided their personal and professional lives, whether they be persuaders, conciliators, diplomats, teachers and scholars, or researchers.

In today's world of changing and integrated communications technology, the department's curriculum reflects the belief that communication should be studied as a single discipline integrated into the liberal arts. Practica and internships support but do not substitute for a sound theoretical base. Participants in department-sponsored journalism laboratories are required to register in COMM 243. Communication Practica; participants in intercollegiate-forensics activities are required to register in COMM 382. Intercollegiate Forensics. Internships are available on and off campus in the full range of communication professions.

## B.A. IN COMMUNICATION

### Requirements (77 units)

### Total units required for graduation: 180

### Requirements for the B.A. in Communication:

#### Core Courses (25 units)

1. COMM 200. Introduction to Communication Studies (4)
2. COMM 304. Intercultural Communication (4)
3. COMM 306. Communication Theory (4)
4. COMM 309. Computer Mediated Communication (4)
5. COMM 400. Communication Research Methodologies (4)
6. COMM 491. Ethical Aspects of Communication (4)
7. COMM 499. Senior Project (1)

#### Communication Practica (8 units)

1. Students must choose eight units from at least two of the following:
  - COMM 243A. Communication Practicum: Journalism and Photojournalism (3)
  - COMM 243B. Communication Practicum: Radio (3)
  - COMM 243D. Communication Practicum: Public Relations (3)
  - COMM 382. Intercollegiate Forensics (3)
  - COMM 399. Community Service Project (1-2)
  - COMM 444A. Advanced Communication Practicum: Television Production (3)
  - COMM 444B. Advanced Communication Practicum: Research (3)
  - COMM 444C. Advanced Communication Practicum: Research (2)
  - COMM 444D. Advanced Communication Practicum: Mentoring (3)
  - COMM 591. Internship/Externship in Communication (2-5)

#### Electives (16 units)

1. Sixteen units in addition to those chosen in the concentration, of which 12 must be upper-division, selected in consultation with an advisor and, in the case of non-departmental electives, the approval of the chair. COMM 120 and 180 may not be applied toward the major.

**124 / Communication****Concentration (28 units)**

A minimum of 28 units from one of the following concentrations below to be chosen in consultation with an advisor.

**Human Communication Concentration**

- Twenty-eight units chosen from:
  - COMM 221. Small Group Communication (4)
  - COMM 225. Fundamentals of Interpersonal Communication (4)
  - COMM 311. Business and Professional Communication (4)
  - COMM 312. Persuasion (4)
  - COMM 330. Nonverbal Communication (4)
  - COMM 331. Communication for Training Programs (4)
  - COMM 341. Public Relations Theory and Principles (4)
  - COMM 343. Nonfiction Reporting and Writing (4)
  - COMM 344. Public Relations Communication (4)
  - COMM 364. Topics in Human Communication (4)
  - COMM 403. Interpersonal Relations (4)
  - COMM 411. Gender and Communication (4)
  - COMM 421. Organizational Communication (4)
  - COMM 422. Communication and Conflict (4)
  - COMM 431. Classroom Communication (4)
  - COMM 441. Interviewing (4)
  - COMM 442. Public Relations Campaigns (4)
  - COMM 502. Communication Law and Policy (4)
  - COMM 522. Mediation Theory and Practice (4)
  - COMM 560. Health Communication (4)
  - COMM 564. Advanced Topics in Human Communication (4)
  - COMM 595. Independent Study (2-5) for a maximum of (5)

**Intercultural Communication Concentration**

- Twenty-eight units chosen from:
  - COMM 302. Communication, Language and Culture (4)
  - COMM 366. Topics in Intercultural Communication (4)
  - COMM 401. Gender, Race and Media (4)
  - COMM 402. Ethnography of Communication (4)
  - COMM 409. Latina/os, Media and Culture (4)
  - COMM 410. Asian Media and Culture (4)
  - COMM 422. Communication and Conflict (4)
  - COMM 471. International Communication (4)
  - COMM 522. Mediation Theory and Practice (4)
  - COMM 566. Advanced Topics in Intercultural Communication (4)
  - COMM 580. Culture and Ethnicity in Language (4)
  - COMM 581. Contemporary Theories of Rhetoric (4)
  - COMM 593. Communication Approaches to Area Studies (4)
  - COMM 595. Independent Study (2-5) for a maximum of (5)

**Mass Communication Concentration****Core (12 units)**

- COMM 240. Writing for Media (4)
- COMM 320. Media History and Institutions (4)
- COMM 321. Media and Culture (4)

**Electives (16 units)**

- Sixteen units chosen from:
  - COMM 245. Introduction to TV and Video Production (5)
  - COMM 311. Business and Professional Communication (4)
  - COMM 341. Public Relations Theory and Principles (4)
  - COMM 342. Publication Design and Makeup (4)
  - COMM 343. Nonfiction Reporting and Writing (4)
  - COMM 344. Public Relations Communication (4)
  - COMM 345. Advanced TV and Video Production (5)
  - COMM 346. TV and Video Field Production (5)
  - COMM 347. Fundamentals of Screenwriting (4)
  - COMM 348. Television News Writing and Reporting (4)
  - COMM 352. Broadcast Management (4)

- COMM 365. Topics in Mass Communication (4)
- COMM 380. Visual Communication (4)
- COMM 381. The Development of Motion Pictures (4)
- COMM 387. Radio Production (4)
- COMM 401. Gender, Race and Media (4)
- COMM 405. Mass Media Effects (4)
- COMM 409. Latina/os, Media and Culture (4)
- COMM 410. Asian Media and Culture (4)
- COMM 415. Advertising as Social Communication (4)
- COMM 424. Film Theory (4)
- COMM 425. Film and New Media (4)
- COMM 442. Public Relations Campaigns (4)
- COMM 450. Audience Research and Analysis (4)
- COMM 471. International Communication (4)
- COMM 481. History and Development of Documentary (4)
- COMM 502. Communication Law and Policy (4)
- COMM 506. Media Sex and Violence (4)
- COMM 565. Advanced Topics in Mass Communication (4)
- COMM 595. Independent Study (2-5) for a maximum of (5)

**Public Argumentation and Rhetoric Concentration**

- Twenty-eight units chosen from:
  - COMM 204. Introduction to Critical Communication Studies (4)
  - COMM 302. Communication, Language and Culture (4)
  - COMM 305. Critical Approaches to Communication (4)
  - COMM 308. Argumentation (4)
  - COMM 312. Persuasion (4)
  - COMM 341. Public Relations Theory and Principles (4)
  - COMM 344. Public Relations Communication (4)
  - COMM 363. Topics in Public Argumentation and Rhetoric (4)
  - COMM 401. Gender, Race, and Media (4)
  - COMM 411. Gender and Communication (4)
  - COMM 442. Public Relations Campaigns (4)
  - COMM 502. Communication Law and Policy (4)
  - COMM 511. Feminist Contributions to Communication Theories (4)
  - COMM 543. Environmental Communication (4)
  - COMM 563. Advanced Topics in Public Argumentation and Rhetoric (4)
  - COMM 581. Contemporary Theories of Rhetoric (4)
  - COMM 595. Independent Study (2-5) for a maximum of (5)

**Public Relations Concentration**

- COMM 240. Writing for Media (4)
- COMM 341. Public Relations Theory and Principles (4)
- COMM 344. Public Relations Communication (4)
- COMM 442. Public Relations Campaigns (4)
- COMM 542. Issue Management and Crisis Communication (4)
- Eight units chosen from:
  - COMM 243D. Communication Practicum: Public Relations (3)
  - COMM 311. Business and Professional Communication (4)
  - COMM 312. Persuasion (4)
  - COMM 342. Publication Design and Makeup (4)
  - COMM 367. Topics in Public Relations (4)
  - COMM 380. Visual Communication (4)
  - COMM 415. Advertising as Social Communication (4)
  - COMM 421. Organizational Communication (4)
  - COMM 450. Audience Research and Analysis (4)
  - COMM 502. Communication Law and Policy (4)
  - COMM 520. Integrated Marketing Communication (4)
  - COMM 567. Advanced Topics in Public Relations (4)
  - COMM 591. Internship/Externship in Communication (2-5) for a maximum of (5)
  - PA 307. Public Relations in the Public Sector (4)

**Individualized Concentration**

Students may propose a unique, individualized 28-unit concentration if the proposed concentration has curricular integrity and if it fulfills objectives that cannot be met through one of the concentrations listed above. Proposals, which require departmental approval, must be submitted no later than the student's junior year. Only 12 units of course work completed prior to such approval can be applied toward an individualized concentration. Consult the department chair for exceptions that may apply to students at the Palm Desert campus.

**TEACHER PREPARATION PROGRAM****English Teacher Preparation Program - Communication Studies Concentration**

In order to complete the English teacher preparation program (for students who wish to be recommended for a single subject English teaching credential) with a concentration in Communication Studies, students must complete the courses listed in the core of the B.A. in English (lower-division requirements 1-2 and upper-division requirements 1-8 found on Page 169), as well as the following:

1. COMM 304. Intercultural Communication (4)
2. COMM 382. Intercollegiate Forensics (3)
3. COMM 431. Classroom Communication (4)
4. Four units chosen from:
  - COMM 305. Critical Approaches to Communication (4)
  - COMM 308. Argumentation (4)
  - COMM 312. Persuasion (4)
  - COMM 401. Gender, Race and Media (4)
  - COMM 411. Gender and Communication (4)
5. Four units chosen from:
  - COMM 306. Communication Theory (4)
  - COMM 403. Interpersonal Relations (4)
  - COMM 422. Communication and Conflict (4)
6. Four units chosen from:
  - COMM 309. Computer Mediated Communication (4)
  - COMM 342. Publication Design and Makeup (4)
  - COMM 344. Public Relations Communication (4)
  - COMM 381. The Development of Motion Pictures (4)
7. ENG 240. Writing in the Public Sphere (4)
8. ENG 312. Theories of Language Acquisition and Learning (4)
9. ENG 327. Literature for Adolescents and Young Adults (4)
10. ENG 329. Issues in Literacy and Writing Studies (4)
11. ENG 420. Pedagogical Grammar (4)
12. ENG 510. English in the Secondary Classroom (4)
13. Students must take ENG 306 or HUM 306 to satisfy the upper-division writing requirement of the university.
14. Students must include the following among their General Education Requirements:
  - a. Four units chosen from:
    - ENG 110. World Literature I (4)
    - ENG 111. World Literature II (4)
  - b. TA 260. Introduction to Theatre (4)

Prior to student teaching, students must demonstrate subject matter competence as assessed by the Department of English. For information about the professional education component, prerequisites for and admission to the teacher education program, or specific requirements for the single subject credential program, see Page 157 or contact the Credentials Office, CE-102.

**Note:** Completing the requirements of the teaching credential in English with a concentration in Communication Studies does NOT in itself satisfy the requirements for the major in either communication or English.

**MINOR IN COMMUNICATION****Requirements (28 units)****Requirements for a minor in Communication:**

Lower-division requirement (4 units)

1. COMM 200. Introduction to Communication Studies (4)

Upper-division requirements (8 units)

1. COMM 304. Intercultural Communication (4)
2. COMM 491. Ethical Aspects of Communication (4)

Electives (16 units)

1. Sixteen additional units in communication, at least eight of which must be upper-division. COMM 120 and 180 may not be applied toward the minor.

**MINOR IN FILM STUDIES****Requirements (28-32 units)****Requirements for minor in Film Studies:**

Lower-division requirements (4-5 units)

1. Four or five units chosen from:

- ART 290. Photography I (5 units)
- COMM 245. Introduction to TV and Video Production (5)
- ENG 160. World Drama
- HUM 180. The Art of Film (4)
- TA 160. World Drama (4)

Upper-division requirements (24-27 units)

1. Eight units chosen from

- COMM 380. Visual Communication (4)
- COMM 381. Development of Motion Picture (4)
- ENG 315. Studies in a Literary Genre (4) (when the topic is Film and Literature)

2. Four units chosen from:

- COMM 386. Contemporary Cinema and Society (4)
- COMM 424. Film Theory (4)
- COMM 425. Film and New Media (4)

3. Twelve to 15 units chosen from either or both of these two categories:

**Film and New Media Theory and Criticism**

- COMM 320. History and Development of Media Institutions (4)
- COMM 321. Media and Culture (4)
- COMM 381. Development of Motion Picture (4)
- COMM 410. Asian Media and Culture (4)
- COMM 481. The History and Development of Documentary (4)

May choose only one of the following two courses:

- ENG 302B. Analysis and Writing of Drama (4)
- TA 302B. Analysis and Writing of Drama (4)
- ENG 463. Advanced Studies in Literary Topics (4) (when the topic is Chicano Film or Studies in Adaptation)
- FREN 370. Francophone Film and Culture (4)
- SPAN 398. Survey of Classical and Contemporary Hispanic Films (4)
- TA 445. The Camera Eye (4)
- TA 465. Ethnic Films and Film Makers (4)

**New Media Production**

- ART 326. Interactive Multimedia Design (5)
- ART 330. Animation and Web Motion-Graphics (5)
- ART 387. Video Art (5)
- COMM 345. Advanced TV-Video Production (5)
- COMM 346. TV-Video Field Production (5)

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COMM 347. Fundamentals of Screenwriting (4)  
May choose only one of the following two courses:  
ENG 302B. Analysis and Writing of Drama (4)

TA 302B. Analysis and Writing of Drama (4)  
TA 357. Acting for the Camera (4)  
TA 385. Acting for Non-Majors (4)

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**MINOR IN INTERCULTURAL COMMUNICATION**

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**Requirements (28 units)****Requirements for a minor in Intercultural Communication:**

Upper-division requirements (16 units)

1. COMM 302. Communication, Language and Culture (4)
2. COMM 304. Intercultural Communication (4)
3. COMM 422. Communication and Conflict (4)
4. COMM 471. International Communication (4)

Electives (12 units)

1. Twelve units chosen from:  
COMM 366. Topics in Intercultural Communication (4)  
COMM 401. Gender, Race and Media (4)  
COMM 402. Ethnography of Communication (4)  
COMM 522. Mediation Theory and Practice (4)  
COMM 580. Culture and Ethnicity in Language (4)  
COMM 581. Contemporary Theories of Rhetoric (4)  
COMM 593. Communication Approaches to Area Studies (4)  
COMM 595. Independent Study (2-5) for a maximum of (5)

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**MINOR IN PUBLIC RELATIONS**

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**Requirements (28 units)****Requirements for a minor in Public Relations:**

Lower-division requirements (4 units)

1. COMM 240. Writing for Media (4)

Upper-division requirements (16 units)

1. COMM 341. Public Relations Theory and Principles (4)
2. COMM 344. Public Relations Communication (4)
3. COMM 442. Public Relations Campaigns (4)
4. COMM 542. Issue Management and Crisis Communication (4)

Electives (8 units)

1. Eight units chosen from:  
COMM 243D. Communication Practicum: Public Relations (3)  
COMM 311. Business and Professional Communication (4)  
COMM 312. Persuasion (4)  
COMM 421. Organizational Communication (4)  
COMM 591. Internship/Externship in Communication (2-5) for a maximum of (5)  
PA 307. Public Relations in the Public Sector (4)

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**MINOR IN SCRIPT WRITING**

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**Requirements (28 units)****Requirements for a minor in Script Writing:**

Lower-division requirement (4 units)

1. Four units chosen from:  
HUM 180. The Art of Film (4)  
TA 260. Introduction to Theatre (4)

Upper-division requirements (24 units)

1. COMM 347. Fundamentals of Screenwriting (4)
2. Four units chosen from:  
ENG 302B. Analysis and Writing of Drama (4)  
TA 302B. Analysis and Writing of Drama (4)
3. TA 347. Playwriting (4)
4. Four units chosen from:  
ENG 316. Introduction to Creative Writing: Specialized Genres (4)  
ENG 317. Introduction to Creative Writing: Poetry (4)  
ENG 318. Introduction to Creative Writing: Fiction (4)
5. ENG 513. Advanced Creative Writing: Specialized Genres (4)
6. Four units chosen from:  
COMM 343. Nonfiction Reporting and Writing (4)  
COMM 380. Visual Communication (4)  
COMM 381. Development of Motion Pictures (4)  
ENG 315. Studies in a Literary Genre (4)  
ENG 463. Advanced Studies in Literary Topics (4)  
TA 465. Ethnic Film and Filmmakers (4)  
**Note:** Students are able to receive credit for summer arts courses pertaining to the minor.

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**DEPARTMENTAL HONORS**

Students majoring in communication are eligible to receive honors in communication at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major;
3. An overall grade point average of 3.5 or better;
4. An independent study course that culminates in a research presentation to the department;
5. Recommendation for departmental honors by the Communication Studies faculty.

Students interested in this recognition must file a formal application with the department at least three quarters prior to graduation

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**CERTIFICATE PROGRAM**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. See Page 58 for additional certificate information.

**Certificate in Communication Skills****Certificate Requirements (32 units)**

Required course (4 units)

1. COMM 491. Ethical Aspects of Communication (4)

Electives (28 units)

1. Public speaking  
Four units chosen from:  
COMM 120. Oral Communication (4)  
COMM 180. Critical Thinking Through Argumentation (4)  
COMM 311. Business and Professional Communication (4)
2. Intercultural communication  
Four units chosen from:  
COMM 304. Intercultural Communication (4)  
COMM 411. Gender and Communication (4)



3. Interpersonal communication  
Four units chosen from:  
COMM 221. Small Group Communication (4)  
COMM 225. Fundamentals of Interpersonal Communication (4)  
COMM 331. Communication for Training Programs (4)  
COMM 403. Interpersonal Relations (4)  
COMM 441. Interviewing (4)
4. Public relations  
Four units chosen from:  
COMM 341. Public Relations Theory and Principles (4)  
PA 307. Public Relations in the Public Sector (4)
5. Journalism  
Eight units chosen from:  
COMM 240. Writing for Media (4)  
COMM 342. Publication Design and Makeup (4)  
COMM 343. Nonfiction Reporting and Writing (4)
6. Media  
Two courses for a minimum of four units chosen from:  
ART 290. Photography I (5)  
COMM 381. The Development of Motion Pictures (4)  
MUS 266. Introduction to Computer and Electronic Music (4)  
MUS 267. Introduction to Studio Recording Techniques (4)  
MUS 519. Audio Production (2)  
TA 253. Voice for the Stage (2)

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## COURSE OFFERINGS IN COMMUNICATION (COMM)

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### Lower Division

#### 120. Oral Communication

Introduction to effective speech communication with emphasis on informative and persuasive public speaking and presentation skills. (GE=A2) (COMM 120=CAN SPCH 4) (4 units)

#### 180. Critical Thinking Through Argumentation

Principles of oral argumentation and forensics: evidence, methods of logical analysis, reasoned discourse demonstrated through argumentative speeches and debates. (GE=A4) (COMM 180=CAN SPCH 6) (4 units)

#### 200. Introduction to Communication Studies

Descriptive overview of how humans communicate in various contexts within the areas of public argumentation and rhetoric, human communication, and mass communication. Includes an introduction to communication processes, theories, and research methodologies. (4 units)

#### 204. Introduction to Critical Communication Studies

Survey of the history and study of rhetoric as it contributes to a critical understanding of the role of communication in society. (4 units)

#### 221. Small Group Communication

Theories of communication applied to small group situations emphasizing decision-making processes. (COMM 221=CAN SPCH 10) (4 units)

#### 225. Fundamentals of Interpersonal Communication

A skills development course designed to facilitate student's acquisition of basic face-to-face communication competencies such as building and maintaining communication climates, listening, perception, self-disclosure, and verbal and non-verbal communication. (COMM 225=CAN SPCH 8) (4 units)

#### 240. Writing for Media

Development of basic writing skills and practices appropriate for print, electronic and digital media. Prerequisites: ENG 101 or equivalent and word processing ability. (COMM 240=CAN JOUR 2) (4 units)

#### 243. Communication Practicum

Practical application of communication skills. COMM 243A, 243B, 243D, 382, 399, 444A, 444B, 444C and 444D may each be taken twice for credit, but no more than nine total units from any combination of these courses may be applied toward the major. Graded credit/no credit.

- A. Journalism and Photojournalism (3 units)
- B. Radio (3 units)
- D. Public Relations (3 units)

#### 245. Introduction to TV and Video Production

Introduction to equipment, theory and procedures used in studio production of television and video programming. Camera, VTR, switcher, lighting, audio character generation, and the roles of crew members will be examined. Basic principles of pictorial composition and aesthetics of the video medium for a variety of applications will also be introduced. Four hours lecture and two hours activity laboratory. (5 units)

### Upper Division

#### 302. Communication, Language and Culture

Contemporary theories of language as they relate to the communication process, including the coding system of signs, symbols, and meanings of cultural groups. (4 units)

#### 304. Intercultural Communication

Description and analysis of cultural and gender factors in communication such as perception, value systems, language codes and nonverbal communication. Overcoming the communication problems that can result when members of different cultures communicate. (GE=G2) (4 units)

#### 305. Critical Approaches to Communication

Contemporary approaches to media and rhetorical criticism, with emphasis on television, film and public discourse. (4 units)

#### 306. Communication Theory

Traditional and contemporary approaches to communication theory, including an examination of the areas of rhetorical, human, and mediated communication. Prerequisite: COMM 200. (4 units)

#### 308. Argumentation

Advanced principles of argumentation: perspectives, analysis and practice. Prerequisite: completion of General Education Critical Thinking requirement. (4 units)

#### 309. Computer Mediated Communication

Examination of how computer technology, particularly the Internet, influences communication processes in a variety of communication contexts. Students will acquire the cognitive and critical skills required to become active, thoughtful communicators via computer mediated channels. Formerly COMM 509. (4 units)

#### 311. Business and Professional Communication

Presentation skills and techniques used in sales, business, professional and technical fields for the communication of information. Special emphasis on technological resources for corporate communication. Prerequisite: COMM 120 or equivalent. (4 units)

**312. Persuasion**

Study and application of rhetorical, social-psychological and mass behavior principles. (4 units)

**320. Media History and Institutions**

A historical examination of media institutions prominent in contemporary culture. Particular attention paid to media industry development and policies and processes of media production, past and present. Prerequisite: COMM 200. (4 units)

**321. Media and Culture**

Analysis of media texts and products as they relate to issues of social impact, identity, representation and economics. Prerequisite: completion of or concurrent enrollment in COMM 320 or consent of instructor. (4 units)

**330. Nonverbal Communication**

Theoretical and applied study of nonverbal communication in the shaping of human communication interactions. Emphasis on the major functions, purposes, and uses of nonverbal communication in a socio-culturally diverse society. (4 units)

**331. Communication for Training Programs**

Techniques and functions of training programs in professional and technical settings. (4 units)

**341. Public Relations Theory and Principles**

Introduction to the theoretical perspectives that form the foundation of public relations. Perspectives and principles of the public relations profession in multiple settings. Historical perspectives, current and future trends, and career opportunities explored. (4 units)

**342. Publication Design and Makeup**

Designing newspaper, magazine and online publications. Includes concept development, planning and composition, typographics, infographics, mastheads, illustration, and desktop publishing. Ethical considerations discussed. Prerequisite: COMM 240. (4 units)

**343. Nonfiction Reporting and Writing**

Methods and procedures for reporting and writing long nonfiction in both public and private sectors. Prerequisite: COMM 240. (4 units)

**344. Public Relations Communication**

Application of public relations theory and principles through the development of public relations communication production skills: message construction and delivery in written, verbal, and visual communication. Includes special events and other communication components used by public relations professionals. Prerequisites: COMM 240 and 341 or consent of instructor. (4 units)

**345. Advanced TV and Video Production**

Advanced techniques and aesthetics of television and video studio production, with emphasis on multicamera shooting and switcher effects. Introduction to video editing and postproduction processes. Four hours lecture and three hours laboratory. Prerequisite: COMM 245 with a grade of "B" (3.0) or better. (5 units)

**346. TV and Video Field Production**

Instruction in the use of portable video equipment for use in field and remote production, as well as postproduction processes associated with remote production. Nonfiction applications and theory will be emphasized. Four hours lecture and three hours laboratory. Prerequisite: COMM 345 with a grade of "B" (3.0) or better. (5 units)

**347. Fundamentals of Screenwriting**

Focus will be on the screenplay, including structure, characters, dialogue, scene development, conflict and theme. Attention will be given to narrative structure and storytelling for film. (4 units)

**348. Television News Writing and Reporting**

Reporting and writing for television news and community programming. Will include writing and editing a newscast, field reporting and research techniques, and writing for visual production. Formerly a topic under COMM 365. (4 units)

**352. Broadcast Management**

Management styles and responsibilities of radio and television owners, programmers and producers. Prerequisites: COMM 320, MGMT 302, or consent of instructor. (4 units)

**363. Topics in Public Argumentation and Rhetoric**

Special topics in public argumentation and rhetoric. May be repeated for credit as topics change. (4 units)

**364. Topics in Human Communication**

Special topics in human communication. May be repeated for credit as topics change. Formerly COMM 585. (4 units)

**365. Topics in Mass Communication**

Special topics in mass communication. May be repeated for credit as topics change. Formerly COMM 386 and 587. (4 units)

**366. Topics in Intercultural Communication**

Special topics in intercultural communication. May be repeated for credit as topics change. Formerly COMM 588. (4 units)

**367. Topics in Public Relations**

Special topics in mass public relations. May be repeated for credit as topics change. (4 units)

**378. Contemporary Cinema and Society**

Contemporary cinema and cultural modernity and postmodernity in film topics of stardom, authorship, culture industries, globalized blockbuster cinema, audiences, and the politics of representation. Formerly a topic under COMM 365. (4 units)

**380. Visual Communication**

Introduction to the principles and theory of visual literacy essential to understanding the social, cultural and ethical layers of meaning in visual communication. Media and other images are examined in view of how they are constructed, processed and integrated with other forms of communication. (4 units)

**381. The Development of Motion Pictures**

Survey of the historical background, commercial development and social influences of motion pictures. Course follows the medium from earliest origins through the rise and decline of the studio system and influences of television with emphasis on key directors and styles of film communication. (4 units)

**382. Intercollegiate Forensics**

Preparation for and participation in intercollegiate debate and/or individual events. Additional hours of supervised practice and performance required. May be repeated for credit for a total of not more than six units. COMM 243A, 243B, 243D, 382, 399, 444A, 444B, 444C and 444D may each be taken twice for credit, but no more than nine total units from any combination of these courses may be applied toward the major. Graded credit/no credit. (3 units)

**387. Radio Production**

Techniques and principles of recording, splicing, dubbing, and mixing sound for radio newscasts, commercials, public service announcements and promotional announcements. Three hours lecture and two hours laboratory. Prerequisite: COMM 243B or consent of instructor. (4 units)

**399. Community Service Project**

Credit for applying previously learned skills in the area of communication to academically related tasks in such agencies as governmental, social services, and educational institutions. May be repeated for a total of two units. Thirty hours of service per unit are required. Graded credit/no credit. Prerequisite: departmental approval of a written application submitted in advance of the quarter in which the course is to be taken. (1-2 units)

**400. Communication Research Methodologies**

Study and application of basic historical, descriptive, critical and experimental research skills unique to communication. Data analysis. Includes ethical considerations of communication research. Prerequisites: COMM 200, 304 and 306. (4 units)

**401. Gender, Race and Media**

Critical and historical examination of images and representations of gender and race in the mass media. Course focuses primarily on film, television, advertising, and the press. (GE=G2) (4 units)

**402. Ethnography of Communication**

Ethnographic frameworks and principles for conducting research on communication within and across cultural boundaries. Includes foci on case studies, interviewing and field work. Prerequisites: COMM 302 and 304 or equivalent or consent of instructor. (4 units)

**403. Interpersonal Relations**

An overview and examination of current concepts, issues and research in the study of human relationships. Primary focus on relational development, maintenance and disengagement in a variety of contexts. (4 units)

**405. Mass Media Effects**

History of research in understanding media effects on individuals and society. Prerequisite: COMM 400. (4 units)

**409. Latina/os, Media and Culture**

Examines mass media representations of and by Latina/os in the United States and how these representations construct culture and society. Formerly a topic under COMM 584. (4 units)

**410. Asian Media and Culture**

Critical survey of Asian popular media and their relevance to Asian cultures. Explores Asian films, TV programs, print media, digital media and the extent to which they represent Asian cultures. Topics include (but not limited to) Japanese animation, Chinese martial arts genre, Bollywood films, Korean TB soap operas, and Asian cybercultures. (4 units)

**411. Gender and Communication**

A critical and sociological examination of how gender is socialized, constructed, communicated and performed in various communicative contexts. (4 units)

**415. Advertising as Social Communication**

Theories of advertising: social, political and economic roles in modern society. (4 units)

**421. Organizational Communication**

Study of current organizational communication theory and application to the management of communication within the organization. (4 units)

**422. Communication and Conflict**

Communication theories and models relevant to analyzing and understanding the causes, functions, styles, and effects of conflict. The skills of negotiation and third party intervention in conflict resolution. (4 units)

**424. Film Theory**

Theoretical and critical frameworks that inform work in film criticism, film aesthetics, and film analysis. Includes constructivist, classical, psychoanalytic, feminist, semiotic, structuralist, and post-structuralist film theories. (4 units)

**425. Film and New Media**

Surveys theories, artistic movements and cultural artifacts that helped set the stage for incorporating new technologies into film production, making the transition to new delivery platforms, and creating a new, post-humanist consciousness in spectators. (4 units)

**431. Classroom Communication**

Communication skills in instructional settings, including strategies to facilitate understanding and analysis of classroom behavioral models. Prerequisite: COMM 120 or equivalent. (4 units)

**441. Interviewing**

Interviewing in formal and informal settings. Understanding of employment, journalistic, informative and persuasive interviews. Prerequisite: COMM 120 or equivalent. (4 units)

**442. Public Relations Campaigns**

Advanced course in public relations that focuses on informational and persuasive communication campaigns to achieve commercial, political and social goals. Emphasis on case analysis and campaign development and campaign implementation. Prerequisites: COMM 344. (4 units)

**444. Advanced Communication Practicum**

Advanced application of communication theory and methods. COMM 243A, 243B, 243D, 382, 399, 444A, 444B, 444C and 444D may each be taken twice for credit, but no more than nine total units from any combination of these courses may be applied toward the major. Graded credit/no credit.

- A. Television Production. Prerequisites: COMM 245, 345, and 346, with a grade of "B" (3.0) or better in COMM 346. (3 units)
- B. Research. Prerequisites: COMM 306 and 400. (3 units)
- C. Research. Prerequisites: COMM 306 and 400. (2 units)
- D. Mentoring. Prerequisite: COMM 225, 331 or 403 or equivalent or permission of instructor. (3 units)

**450. Audience Research and Analysis**

Methods used for understanding the relationship between media producers, the audience, and other social forces. Prerequisite: COMM 400. (4 units)

**471. International Communication**

Political, economic, and cultural analysis of the structure, context, and impact of communication across national boundaries, including news, entertainment, advertising, corporate communication, trans-border data flows and the Internet. (4 units)

**481. History and Development of Documentary**

Examination of the historical background, economic development, and social influences of documentaries. Theories of cultural representation, rhetorical strategies, and ethical considerations will be studied, with particular emphasis on their application to alternative and experimental documentary forms. (4 units)

**491. Ethical Aspects of Communication**

Focuses on exploring and assessing issues of responsibility and ethical standards of communication in areas such as interpersonal, political, print, TV/film, organizational and electronic communication contexts. Goals of the course include stimulation of the moral imagination; recognition of ethical issues; and development of critical/analytical skills. Formerly COMM 501. Prerequisites: COMM 200, 306 and 400 or consent of department. (4 units)

**499. Senior Project**

Preparation and submission of a portfolio of course related products reflecting the goals and objectives of the communication major, accompanied by a reflective essay demonstrating how the portfolio reflects successful achievement of those goals and objectives. Required of all communication majors. Formerly COMM 599. Graded credit/no credit. Prerequisite: COMM 200, 304, 306, 309, 400 and completion of 132 units with a minimum of 44 units in the major. (1 unit)

**502. Communication Law and Policy**

Exploration and application of laws and regulations as they affect communication. Includes consideration of freedom of speech, libel and slander, intellectual property, broadcast regulations and privacy. (4 units)

**506. Media Sex and Violence**

Critical and empirical examination of the practices and consequences of portraying human aggression and sexuality in the mass media including television, movies, magazines, video games, and the Internet. Formerly a topic under COMM 587. (4 units)

**511. Feminist Contributions to Communication Theories**

Examination of how diverse feminist theories contribute to an understanding of communication and rhetoric, integrating feminist theories with communication theories, and focusing on how gender distinctions influence our thinking and communication. Will explore diversity in feminism, including ethnicity, relational orientation, religion and class. Formerly a topic under COMM 365. (4 units)

**520. Integrated Marketing Communication**

An integrated perspective on the process of communicating marketing messages to promote products, services, ideas, people, causes and events. Advertising, direct marketing, personal selling, public relations, and sales promotion strategies are explored with consideration given to global, ethical and technology-related issues. (Also offered as MKTG 520. Students may not receive credit for both.) (4 units)

**522. Mediation Theory and Practice**

Exploration of the theories, methods, and techniques of mediation as a collaborative process of resolving conflicts among individuals, groups, organizations, and nations. Third party intervention skills needed to serve as a mediator are developed through simulation exercises. Formerly a topic under COMM 364. Prerequisite: COMM 422 or permission of instructor. (4 units)

**542. Issue Management and Crisis Communication**

Principles and methods of issue evaluation and crisis management in public relations communication including issue monitoring, issue analysis, policy options, program design, evaluation, and identification. Prerequisite: COMM 344 or equivalent or consent of instructor. (4 units)

**543. Environmental Communication**

Examination of communication involving environmental issues in national and international contexts. Emphasis is placed on the relationship between communication and environmental problems and issues. Formerly a topic under COMM 584. (4 units)

**560. Health Communication**

Advanced study of issues, contexts, and theories of health communication. Examines health issues in various communication contexts such as interpersonal, intercultural, organizational and mediated communication. Formerly a topic under COMM 364. Prerequisites: COMM 200 and 306, or consent of instructor. (4 units)

**563. Advanced Topics in Public Argumentation and Rhetoric**

Advanced special topics in public argumentation and rhetoric. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

**564. Advanced Topics in Human Communication**

Advanced special topics in human communication. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

**565. Advanced Topics in Mass Communication**

Advanced special topics in mass communication. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

**566. Advanced Topics in Intercultural Communication**

Advanced special topics in intercultural communication. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

**567. Advanced Topics in Public Relations**

Advanced special topics in public relations. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

**580. Culture and Ethnicity in Language**

Critical examination of the way language shapes perceptions, behaviors, and attitudes about culture and ethnicity. Prerequisite: COMM 304 or equivalent. (4 units)

**581. Contemporary Theories of Rhetoric**

Study of 20th century conceptualizations of rhetoric and intercultural communication with an emphasis on contemporary public discourse in different cultural settings. (4 units)



591. Internship/Externship in Communication

Supervised work and study of communication processes in private and public settings. A total of ten units in COMM 591 may be applied toward graduation. Graded credit/no credit. Prerequisites: junior or senior status with a minimum of 16 units of communication course work completed on this campus; minimum overall grade point average of 2.5; written consent from a supervising agency within which the internship will take place; departmental approval of a contract between the intern and the supervising agency to be filed prior to the quarter in which the course is to be taken. (2-5 units)

593. Communication Approaches to Area Studies

Examination of communication practices and issues within world regions and among cultural groups which may include the role of communication in political, economic, social and cultural conflict and change. May be repeated for credit as focus area changes. Prerequisite: COMM 304 or equivalent.

A. Africa (4 units)
B. Asia-Pacific (4 units)
C. Europe (4 units)
D. Latin America (4 units)

595. Independent Study

Special topics involving library research, experimental or field research, or media production. A total of 10 units in COMM 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0 ("B"), consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken, and junior or senior status. (2-5 units)

# COMPUTER ENGINEERING

## Department of Computer Science and Engineering

Jack Brown Hall, Room 307  
(909) 537-5326 <http://cse.csusb.edu/>

## Department of Physics

Physical Sciences Building, Room 119  
(909) 537-5397 <http://physics.csusb.edu/>

## Bachelor of Science

Computer Engineering

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**FACULTY:** Richard Botting, Arturo Concepcion, Paul Dixon, George Georgiou (Chair), Ernesto Gomez, Yasha Karant, Josephine Mendoza, Owen Murphy, Haiyan Qiao, Keith Schubert, David Turner, Tim Usher, Kerstin Voigt, Tong Yu, Kay Zemoudeh

**DEPARTMENT OF PHYSICS FACULTY:** Steven Barnes, Leo Connolly, Paul Dixon, Karen Kolehmainen, Susan Lederer, Paul Renteln (Chair), Javier Torner, Timothy Usher, Laura Woodney

Computer Engineering is a discipline with historical foundations in computer science and electrical engineering. It is concerned with the study of a variety of topics including circuit design, programmable logic, computer design, computer programming, software engineering, data communication, machine intelligence, robotics, the algorithmic solutions of problems, and the various representations of information including numeric, alphabetic, visual, audio and sensory. This discipline deals with effective ways to represent and manipulate information, algorithms to process information, hardware systems and technologies to run software, design methodologies for hardware and software systems, and engineering techniques for ensuring the accuracy and cost effectiveness of these processes.

The degree is jointly administered by the Department of Computer Science and Engineering and the Department of Physics. The program is housed in the Department of Computer Science and Engineering.

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## B.S. IN COMPUTER ENGINEERING

### Requirements (135 units)

**Total units required for graduation: 196**

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### Requirements for the B.S. in Computer Engineering:

Lower-division requirements (71 units)

1. CHEM 215. General Chemistry (6)
2. CSCI 201. Computer Science I (4)
3. CSCI 202. Computer Science II (4)
4. ECON 200. Principles of Macroeconomics (4)
5. MATH 211. Basic Concepts of Calculus (4)
6. MATH 212. Calculus II (4)
7. MATH 213. Calculus III (4)
8. MATH 251. Multivariable Calculus I (4)
9. MATH 252. Multivariable Calculus II (4)
10. MATH 262. Applied Statistics (4)
11. MATH 272. Discrete Mathematics (4)

12. PHYS 150. Analog Electronics (5)
13. PHYS 152. Introduction to Engineering Design (2)
14. PHYS 221. General Physics I (5)
15. PHYS 222. General Physics II (5)
16. PHYS 223. General Physics III (5)
17. PHYS 224. General Physics IV (3)

Upper-division requirements (56 units)

1. CSCI 303. Computer Engineering Design (1) for a total of (7)
  2. CSCI 310. Digital Logic (5)
  3. CSCI 311. Advanced Digital Design (4)
  4. CSCI 313. Machine Organization (4)
  5. CSCI 330. Data Structures (4)
  6. CSCI 401. Contemporary Computer Architectures (5)
  7. CSCI 403. Circuit Design and Analysis (3)
  8. CSCI 455. Software Engineering (4)
  9. CSCI 460. Operating Systems (4)
  10. CSCI 535. Numerical Computation (4)
  11. PHYS 318. Materials Science and Engineering (4)
  12. PHYS 350. Data Acquisition and Control (4)
  13. PHYS 373. Mathematical Methods of Physics (4)
- Specialization (8 units)

Take both courses in one specialization for a total of eight units.

### Networking

1. CSCI 530. Data Communication and Networks (4)
2. CSCI 531. High Performance Networks (4)

### Embedded Systems

1. CSCI 510. Advanced Computer Architecture (4)
2. CSCI 521. Field Programmable Gate Array Design (4)

### Computer Systems

1. CSCI 350. File Systems (4)
2. CSCI 570. Compilers (4)

### Software Engineering

1. CSCI 556. Introduction to Formal Methods, Models and Languages (4)
2. CSCI 565. Systems Programming (4)

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## DEPARTMENTAL HONORS IN COMPUTER ENGINEERING

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The department faculty will determine whether a student is to be awarded departmental honors based upon the following criteria:

1. Demonstration of independent work by achieving a grade of "C" or better (2.0) in any one of the following:
  - a. CSCI 575. Internship in Computer Science (4)
  - b. CSCI 595. Independent Study (4)
  - c. PHYS 585. Internship in Physics (4)
  - d. PHYS 595. Independent Study (4)
2. Attainment of a minimum overall grade point average of 3.0 ("B") in all university courses attempted and a minimum grade point average of 3.5 in all computer science courses required by the major.
3. At least five upper-division computer engineering courses required by the major must be taken at this university.

Candidacy for honors in computer engineering is voluntary and must be applied for at the beginning of the senior year. Approval of honors rests solely with the department and other factors may weigh in their judgment.

# COMPUTER SCIENCE

Accredited by ABET (B.S. in Computer Science)

## Department of Computer Science and Engineering

Jack Brown Hall, Room 307  
(909) 537-5326 <http://cse.csusb.edu/>

### Bachelor of Arts

Computer Systems  
General Interdisciplinary Option  
Game Development Option  
Graphics Programming Option  
Web Programming Option  
System Administration Option

### Bachelor of Science

Bioinformatics (See Page 106.)  
Computer Engineering (see Page 132.)  
Computer Science

### Minor

Computer Science

### Certificate Program

Computer Systems and Programming

### Master of Science

Computer Science  
(Degree requirements can be found on Page 382.)

**FACULTY:** Richard Botting, Arturo Concepcion, George Georgiou (Chair), Ernesto Gomez, Dennis Ikenberry (Emeritus), Yasha Karant, Allan Knight, Josephine Mendoza, Owen Murphy, Haiyan Qiao, Keith Schubert, David Turner, Kerstin Voigt, Tong Yu, Kay Zemoudeh

Computer science is a discipline with historical foundations in science, mathematics and engineering. It is concerned with the study of a variety of topics including computer design, computer programming, information processing, data communication, machine intelligence, robotics, the algorithmic solution of problems, and the various representations of information including numeric, alphabetic, visual, audio and sensory. This discipline deals with effective ways to represent and display information, algorithms to process information, languages in which to express algorithms, hardware systems to interpret such languages, theoretical techniques for insuring the accuracy and cost effectiveness of these processes and the philosophical foundations of computing and machine intelligence.

The Bachelor of Science in Computer Science is a degree program accredited by ABET/CAC guidelines, and as such provides both intellectual depth and breadth in the discipline of computer science. The program emphasizes both fundamentals of computer science and the skills required to apply computer science to application areas, as well as professional ethics. The objective of the program is to prepare the student upon graduation for: immediate entry into a programming, software engineering, systems and network administration or similar position in either the public or private sectors; or for graduate education in computer science or a closely related discipline leading to a Master or Doctoral degree. Graduates of the program have been successful both in industry and in graduate school.

The Bachelor of Arts in Computer Systems program emphasizes the application of principles to practical problem solving in a domain of interest. Students complete a core set of foundation courses and coursework in one of the following concentrations: web programming, system administration, game development, graphics programming.

Students also have the ability to combine the study of computer systems with another field of study through the general interdisciplinary option.

The Minor in Computer Science is designed to give students from all academic disciplines a foundation in computing which will enrich and support the student's own field of study.

The Certificate Program in Computer Systems and Programming is a short course of study provided for those individuals who desire a career in the computer science field which does not require a formal degree.

To stay ahead in today's increasingly competitive computer marketplace and to broaden each student's computer applications horizon, the department encourages student affiliation with the California State University's International Programs. For further information, see Page 20.

## B.A. IN COMPUTER SYSTEMS

### Requirements (92-99 units)

**Total units required for graduation: 180**

### Requirements for the B.A. in Computer Systems:

Lower-division requirements (20 units)

1. CSCI 201. Computer Science I (4)
2. CSCI 202. Computer Science II (4)
3. MATH 211. Basic Concepts of Calculus (4)
4. MATH 262. Applied Statistics (4)
5. MATH 272. Discrete Mathematics (4)

Upper-division requirements (26 units)

1. CSCI 313. Machine Organization (4)
2. CSCI 330. Data Structures (4)
3. CSCI 375. Requirements Analysis and Design (4)
4. CSCI 455. Software Engineering (4)
5. CSCI 482. Senior Interdisciplinary Project (4)
6. CSCI 488. Ethics and the Computing Professional (2)
7. COMM 311. Business and Professional Communication (4)

Option Requirement (46-53 units)

Requirements for one of the following options must be satisfied.

### General Interdisciplinary Option (48 units)

1. CSCI 372. Computer Systems in Organizations (4)
2. CSCI 572. Database Systems (4)
7. Sixteen units chosen from CSCI courses numbered 300 and above.
8. Completion of a minor in another discipline after consultation with a Computer Science and Engineering faculty advisor. (24 units minimum)

### Game Development Option (53 units)

1. CSCI 320. Programming Languages (4)
2. CSCI 420. Computer Graphics (4)
3. CSCI 431. Algorithm Analysis (4)
4. CSCI 440. Game Design (4)
5. CSCI 441. Game Programming (4)
6. CSCI 512. Introduction to Artificial Intelligence (4)
7. CSCI 513. Advanced Artificial Intelligence (4)
8. CSCI 520. Advanced Computer Graphics (4)
9. CSCI 535. Numerical Computation (4)
10. CSCI 570. Compilers (4)
11. MATH 212. Calculus II (4)
12. MATH 372. Combinatorics (4)
13. PHYS 221. General Physics I (5)

**134 / Computer Science****Graphics Programming Option (48 units)**

1. ART 120. Introduction to Two Dimensional Design (4)
2. ART 232. Principles of Design Management (4)
3. ART 320. Digital Image Editing (5)
4. ART 322. Web Design (5)
5. ART 330. Animation and Web Motion-Graphics (5)
6. CSCI 322. Web Page Programming (4)
7. CSCI 420. Computer Graphics (4)
8. CSCI 520. Advanced Computer Graphics (4)
9. Five units chosen from
  - ART 325. Advanced Digital Image Editing (3)
  - ART 326. Interactive Multimedia Design (5)
10. Eight units chosen from CSCI courses numbered 300 and above.

**Web Programming Option (46 units)**

1. ART 322. Web Design (5)
2. ART 330. Animation and Web Motion Graphics (5)
3. CSCI 292. Java Programming (4)
4. CSCI 322. Web Page Programming (4)
5. CSCI 365. Systems Administration (4)
6. CSCI 366. Systems Networking (4)
7. CSCI 372. Computer Systems in Organizations (4)
8. CSCI 405. Server Programming (4)
9. CSCI 572. Database Systems (4)
10. CSCI 580. Advanced Database Systems (4)
11. Four units chosen from CSCI courses numbered 300 and above.

**System Administration Option (50 units)**

1. CSCI 292. Java Programming (4)
2. CSCI 310. Digital Logic (5)
2. CSCI 322. Web Page Programming (4)
3. CSCI 350. File Systems (4)
4. CSCI 360. Script Programming (4)
5. CSCI 365. Systems Administration (4)
6. CSCI 366. Systems Networking (4)
7. CSCI 372. Computer Systems in Organizations (4)
8. CSCI 401. Contemporary Computer Architecture (5)
9. CSCI 405. Server Programming (4)
10. CSCI 460. Operating Systems (4)
11. CSCI 572. Database Systems (4)

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**B.S. IN COMPUTER SCIENCE****Requirements (119 units)****Total units required for graduation: 191**

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**Requirements for the B.S. in Computer Science:****Lower-division requirements (53 units)**

1. CSCI 201. Computer Science I (4)
2. CSCI 202. Computer Science II (4)
3. MATH 211. Basic Concepts of Calculus (4)
4. MATH 212. Calculus II (4)
5. MATH 213. Calculus III (4)
6. MATH 262. Applied Statistics (4)
7. MATH 272. Discrete Mathematics (4)
8. PHYS 221. General Physics I (5)
9. PHYS 222. General Physics II (5)
10. PHYS 223. General Physics III (5)
11. Five units chosen from:
  - BIOL 100. Topics in Biology (5)
  - BIOL 200. Biology of the Cell (5)

12. One additional science course (with lab component), not previously taken, from the following areas:
  - Biology (5)
  - Chemistry (5)
  - Geological Sciences (5)
  - Physics (5)

**Upper-division requirements (46 units)**

1. CSCI 310. Digital Logic (5)
2. CSCI 313. Machine Organization (4)
3. CSCI 320. Programming Languages (4)
4. CSCI 330. Data Structures (4)
5. CSCI 350. File Systems (4)
6. CSCI 401. Contemporary Computer Architectures (5)
7. CSCI 431. Algorithm Analysis (4)
8. CSCI 455. Software Engineering (4)
9. CSCI 460. Operating Systems (4)
10. CSCI 488. Ethics and the Computing Professional (2)
11. CSCI 489. Senior Seminar (2)
12. MATH 372. Combinatorics (4)

**Electives (20 units)**

1. Theory
  - Four units chosen from:
    - CSCI 500. Introduction to Formal Languages and Automata (4)
    - CSCI 511. Expert Systems (4)
    - CSCI 512. Introduction to Artificial Intelligence (4)
    - CSCI 515. Automated Reasoning (4)
    - CSCI 546. Introduction to Theory of Computation (4)
2. Systems
  - Four units chosen from:
    - CSCI 540. Systems Simulation (4)
    - CSCI 565. Systems Programming (4)
    - CSCI 570. Compilers (4)
    - CSCI 572. Database Systems (4)
    - CSCI 580. Advanced Data Base Systems (4)
3. Hardware
  - A minimum of four units chosen from:
    - CSCI 510. Advanced Computer Architecture (4)
    - CSCI 524. Supercomputing and Visualization (4)
    - CSCI 525. Parallel Algorithms and Programming (4)
    - CSCI 530. Data Communications and Networks (4)
    - CSCI 531. High Performance Networks (4)
4. Eight units chosen from 400-level and above courses not previously counted as electives above.

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**MINOR IN COMPUTER SCIENCE****Requirements (28 units)**

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**Requirements for a minor in Computer Science:**

1. Mathematics
  - Four units chosen from:
    - MATH 272. Discrete Mathematics (4)
    - MATH 372. Combinatorics (4)
2. CSCI 201. Computer Science I (4)
3. CSCI 202. Computer Science II (4)
4. CSCI 330. Data Structures (4)
5. Twelve units of upper-division CSCI courses. These units may not include CSCI 399 or 575.



## DEPARTMENTAL HONORS

The department faculty will determine whether a student is to be awarded departmental honors based upon the following criteria:

1. Demonstration of independent work by achieving a grade of "C" (2.0) or better in a four-unit CSCI 595. Independent Study or credit in CSCI 575. Internship in Computer Science;
2. Attainment of a minimum overall grade point average of 3.0 ("B") in all university courses attempted and a minimum grade point average of 3.5 in all computer science courses required by the major (as defined above);
3. At least five computer science courses required by the major must be taken at this university.

Candidacy for honors in computer science is voluntary and must be applied for at the beginning of the senior year. Approval of honors rests solely with the department and other factors may weigh in their judgment.

## CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. See Page 58 for additional certificate information.

### Certificate in Computer Systems and Programming

#### Certificate Requirements (30 units)

1. Two units chosen from:
  - CSCI 123. Using Computer Software (2)
  - CSCI 124. Exploring the Information Superhighway (2)
2. CSCI 125. Programming in Visual Basic (4)
3. CSCI 201. Computer Science I (4)
4. CSCI 202. Computer Science II (4)
5. CSCI 360. Script Programming (4)
6. Twelve units of upper-division coursework to be chosen in consultation with the chair of the Department of Computer Science and Engineering.

## DEPARTMENTAL HONORS IN COMPUTER ENGINEERING

The department faculty will determine whether a student is to be awarded departmental honors based upon the following criteria:

1. Demonstration of independent work by achieving a grade of "C" or better (2.0) in any one of the following:
  - a. CSCI 575. Internship in Computer Science (4)
  - b. CSCI 595. Independent Study (4)
  - c. PHYS 585. Internship in Physics (4)
  - d. PHYS 595. Independent Study (4)
2. Attainment of a minimum overall grade point average of 3.0 ("B") in all university courses attempted and a minimum grade point average of 3.5 in all computer science courses required by the major.
3. At least five upper-division computer engineering courses required by the major must be taken at this university.

Candidacy for honors in computer engineering is voluntary and must be applied for at the beginning of the senior year. Approval of honors rests solely with the department and other factors may weigh in their judgment.

## COURSE OFFERINGS IN COMPUTER SCIENCE (CSCI)

### Lower Division

#### 121. Computer Technology and People

Computer technology: background, contemporary uses, implications and trends, impact on society and ethics. No previous computer background required. May not be taken for credit by students who have received credit for CSCI 100, 120 or 127. (2 units)

#### 122. Bioinformatics

Introduction to natural sciences and its interplay with computer science. Description of bioinformatics and the application of computer science and problems in the life sciences. (GE=B4) (2 units)

#### 123. Using Computer Software

Word processor, spreadsheet, and database as an aid to personal productivity. One hour lecture and two hours laboratory. Materials fee required. No previous computer background required. May not be taken for credit by students who have received credit for CSCI 100 or 127. (2 units)

#### 124. Exploring the Information Superhighway

Familiarization, use and customization of software tools to explore and publish information on the Internet. This includes Electronic Mail, the World Wide Web and USENET news groups. One hour lecture and two hours laboratory. Materials fee required. (2 units)

#### 125. Programming in Visual Basic

Programming techniques in an event-driven and object-oriented environment. Graphical user interfaces, controls, properties, procedures, and functions. Multiple forms, menus, file access, and applications. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: satisfactory score on the Entry Level Mathematics examination or completion of the General Education Basic Skills category in Mathematics. (CSCI 125=CAN CSCI 6) (4 units)

#### 127. Introduction to Computer Technology for Educators

Operations, terminology and components. Implications for a democratic society, impacts on quality-of-life including economics, morality, legality and ethics. Hands-on use of computers for word processing, etc. Three hours lecture and two hours laboratory. Materials fee required. No programming involved. No previous computer experience required. May not be taken for credit by students who have received credit for CSCI 100, 121 and 123. (4 units)

#### 128. Application Programming

Developing applications using a current graphical user programming environment. Three hours lecture and two hours activity laboratory. Materials fee required. (4 units)

#### 129. Science, Computing and Society

Understanding physical science in terms of information and information processing. Use of computer as both a tool and metaphor for understanding life, physics, and existence, and its implications and impact on society and ethics. (GE=B4) (2 units)

#### 133. Using Word Processors and Presentation Software

Advanced features and applications of word processing and presentation software. Includes desktop publishing, building macros, building custom presentation templates and proper presentation techniques. One hour lecture and two hours laboratory. Materials fee required. Prerequisite: CSCI 123 or consent of instructor. (2 units)

**134. Using Spreadsheet and Database Software**

Advanced features and applications of spreadsheets and end-user database applications, including advanced formula programming, spreadsheet linking and database access. One hour lecture and two hours laboratory. Materials fee required. Prerequisite: CSCI 123 or consent of instructor. (2 units)

**136. HTML Programming**

Using the Hyper Text Markup Language to create Web pages. One hour lecture and two hours laboratory. Materials fee required. Prerequisite: CSCI 124 or consent of instructor. (2 units)

**140. Introduction to Game Design**

Elements of games, including theme, game play and presentation. The process by which game concepts are transformed into actual computer games, including the use of scripting languages to incorporate sound and graphics into a game, design documents, project management, evaluation, game play parameters and artificial intelligence. Several examples will be used to demonstrate game design concepts and practice. One hour lecture and two hours laboratory. Materials fee required. (2 units)

**141. Introduction to Game Programming**

Basic concepts of programming and how programs control the display of graphics and animation in computer games. The use of artificial intelligence in computer games. Demonstrations and experiments with game programming through the use of examples. One hour lecture and two hours laboratory. Materials fee required. (2 units)

**201. Computer Science I**

Computer software design, implementation, methods and environments using a current high-level language. Survey of computers, applications and other areas of computer science. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: satisfactory score on the Entry Level Mathematics examination, and either some prior computer programming experience, or CSCI 125. (CSCI 201=**CAN** CSCI 22) (4 units)

**202. Computer Science II**

Analysis of problems and the formulation, documentation and implementation of their solutions; an introduction to data structures with abstract data types; software engineering principles for both individual and group projects. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisites: CSCI 201 and satisfactory score on the Entry Level Mathematics examination. (CSCI 202=**CAN** CSCI 24) (4 units)

**240. FORTRAN Programming**

FORTRAN language with emphasis on computer solution of problems reducible to algebraic models and elementary numerical methods. Prerequisites: MATH 211 and either some computer programming experience or CSCI 125. (CSCI 240=**CAN** CSCI 4) (4 units)

**280. Low Level Language**

Study of the assembly language for selected processors such as 8086/88, 68000, PDP II, VAX II, etc. May be repeated twice for credit as topics change. Prerequisite: CSCI 202. (4 units)

**290. High Level Language**

Study of a selected high-level programming language, such as ADA, COBOL, C, Prolog or LISP. May be repeated for credit as topics change. Prerequisite: CSCI 202. (CSCI 290=**CAN** CSCI 16) (4 units)

**292. JAVA Programming**

Study of object oriented programming and techniques using JAVA programming language. Prerequisite: prior course in computer programming. (4 units)

**295. Computer Science Project**

Production of documented computer programs under the direction of a faculty member. May be repeated twice for credit using different projects, a total of four units may apply toward graduation. Prerequisites: a minimum overall grade point average of 3.0 ("B"), consent of instructor, and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-4 units)

**298. Application Software Topics**

Applications software in areas such as word processing, database, graphics, desk top publishing, planning and communications will be examined under specific operating systems. This is a how-to course and hands-on experience will be stressed. May be repeated for credit as topics change. No previous computing experience is required. One hour lecture and two hours laboratory. Materials fee required. Graded credit/no credit. (2 units)

**Upper Division****303. Computer Engineering Design**

Guided engineering design activity on an ongoing real world problem. Three hours activity. Must be repeated for a total of seven units. Prerequisite: PHYS 152. (1 unit)

**310. Digital Logic**

Boolean algebra, flip-flops, combinational and sequential circuits, arithmetic-logic units, memory devices, and I/O peripherals. Laboratory experiments include bread-board assembly of finite state machine circuits, registers and arithmetic-logic processors. Four hours lecture and three hours laboratory. Materials fee required. Prerequisites: CSCI 202 and MATH 272. (5 units)

**311. Advanced Digital Design**

Transistor circuits, MOS and CMOS characteristics, design of logic families, CPLDs and FPGAs, timing, propagation, hazards, bistability and metastability, ASM charts, skew, reliability and testing, and transmission line behavior. Materials fee required. Three hours discussion and three hours laboratory. Prerequisite: CSCI 310. (4 units)

**313. Machine Organization**

Typical components of von Neumann computer architectures; their organization, interrelated activities and control are emphasized and demonstrated using low-level languages. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: CSCI 202. (4 units)

**320. Programming Languages**

Topics include formal language specification, data types and their implementation, abstract mechanisms, control structures, run-time representations and storage management. Several high-level languages will be examined. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: CSCI 202. (4 units)

**322. Web Page Programming**

Current protocols, technology, languages, and methodologies for the browser side of web-based systems; performance issues; human factors, page and site design. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: CSCI 202 or consent of instructor. (4 units)

**330. Data Structures**

Abstract data structures including lists, stacks, queues and trees; their storage allocation and associated application algorithms. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisites: CSCI 202 and MATH 272 or 372. (4 units)

**350. File Systems**

Topics include file structures, file organization concepts and philosophies. Prerequisite: CSCI 330. (4 units)

**360. Script Programming**

Getting started; terminal types; e-mail; command line and GUI interfaces; advanced editing; macros; text processing and programmer's tools. Two hours lecture and four hours activity laboratory. Materials fee required. Prerequisite: CSCI 202. (4 units)

**365. Systems Administration**

Responsibilities and skills of the system administrator; managing accounts, system files and mail; security, reliability and backups; emergencies; ethics and usability. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: CSCI 201. (4 units)

**366. Systems Networking**

Planning and configuring networks; file transfer; network file servers; bridges and routers. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: CSCI 360. (4 units)

**372. Computer Systems in Organizations**

General system and information theory. Modeling organizational activities, hardware and software using current techniques with emphasis on human-computer interaction, systems engineering and project planning. Students will study part of an actual or hypothetical organization. Prerequisite: CSCI 202. (4 units)

**375. Requirements Analysis and Design**

Requirements analysis, including organizational objectives, functional characteristics, technology, use cases and conceptual models. The use of aspects, patterns, objects and structure in architectural design specifications. Includes analysis and design of a software system for an organization, and fieldwork. Prerequisites: CSCI 202. (4 units)

**399. Community Service Project**

Credit for performing academically related tasks in such agencies as educational, governmental and social service institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of department. (1-2 units)

**401. Contemporary Computer Architectures**

Design methodology; processor units and control units of von Neumann computer architectures; RISC architectures, including pipelining and parallel-processing. Laboratory experiments consist of the use of computer-aided design tools for VLSI layout and simulation. Four hours lecture and three hours laboratory. Materials fee required. Prerequisites: CSCI 310 and 313. (5 units)

**403. Circuit Design and Analysis**

Analysis and design of digital and analog circuits, active and passive elements, diodes, FET and BJT transistor circuits, introduction to VLSI, two port networks, transmission lines, three phase circuits, filtering circuits in continuous and discrete time, Laplace and Z transform analysis and design, spectrum and power characterization of signals and systems. Two hours lecture and three hours activity laboratory. Materials fee required. Prerequisites: CSCI 310, MATH 251, and PHYS 150. (3 units)

**405. Server Programming**

Current operating system technology; languages and methodologies of controlling servers; performance analysis; interfaces to databases; security, monitoring, and maintainability. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: CSCI 322. (4 units)

**420. Computer Graphics**

Survey of computer graphics hardware. Topics include animation, two-dimensional and three-dimensional transformation, hidden surface removal algorithm, business charts and applications. Prerequisite: CSCI 330. (4 units)

**431. Algorithm Analysis**

Analysis and design of algorithms, including time and space complexity, design methodologies, and taxonomic classification of problems. Formerly CSCI 331. Prerequisites: CSCI 330 and MATH 372. (4 units)

**440. Game Design**

Study of game design concepts and game design specification. Topics include principles of user interface layout, game design techniques, game design methodologies, artificial intelligence in gaming, and game design tools. Prerequisite: CSCI 330. (4 units)

**441. Game Programming**

Techniques and technology used to produce games. Topics include game engine design, mathematical foundations of game programming, game physics, artificial intelligence, and application of software engineering principles to a game development environment. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: CSCI 420. (4 units)

**455. Software Engineering**

Advanced techniques and technology used to produce large software systems. Laboratory work with a software development environment. Three hours lecture and three hours laboratory. Materials fee required. Prerequisite: CSCI 330. (4 units)

**460. Operating Systems**

An overview of operating systems. Principles of resource management and control. Multiprogramming, distributed systems and multiprocessor systems will be included. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisites: CSCI 313 and 330. (4 units)

**482. Senior Interdisciplinary Project**

Analysis, design and implementation of a software system that solves an interdisciplinary problem related to the student's chosen program option or minor field of study. Presentation techniques and communication skills to support project planning and execution. Prerequisites: CSCI 375 and consent of department. (4 units)

**488. Ethics and the Computing Professional**

Professionalism, ethics, legal issues and the social impact and role of computer technology. Prerequisite: senior standing. (2 units)

**489. Senior Seminar**

A series of weekly seminars covering a wide range of computer science topics and formats including presentations from industry and university personnel, and students regarding projects and research work. Graded credit/no credit. Prerequisite: completion of all required 300-level computer science courses for the B.S. in Computer Science degree. (2 units)



**492. Topics in Computer Science**

Consideration of a selected area of computer science. May be repeated for credit as topics change. Prerequisite: CSCI 431 or consent of instructor. (2 units)

**500. Introduction to Formal Languages and Automata**

Introduction to formal language theory. Finite state machines, regular grammars, context-free grammars, context-sensitive grammars, push-down automata, closure properties. Prerequisite: CSCI 431 or consent of instructor. (4 units)

**510. Advanced Computer Architecture**

High performance computer architectures and algorithms including pipeline, vector, array, multiprocessor computer designs, applications, and programming. Also covered are data flow and systolic machines, interconnection networks, and graph and parallel graph algorithms. Formerly CSCI 410. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: CSCI 401. (4 units)

**511. Expert Systems**

Expert systems components, problems and applications. Knowledge bases, inference "engines," and their integration within expert systems. Tools for building expert systems, system algorithms as related to hardware, implementation languages and examples of systems in operation. Prerequisite: CSCI 330. (4 units)

**512. Introduction to Artificial Intelligence**

Problems and issues of artificial intelligence, current techniques and methods, and future prospects of machine intelligence. Three hours lecture and two hours activity laboratory. Materials fee required. Formerly CSCI 411. Prerequisite: CSCI 330. (4 units)

**513. Advanced Artificial Intelligence**

Advanced issues and techniques in artificial intelligence; intelligent agents for problem solving, reasoning and learning; advanced artificial intelligence programming in LISP. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: CSCI 512 or consent of instructor. (4 units)

**515. Automated Reasoning**

Study of deduction algorithms for expert systems and the limitations thereof, propositional calculus, quantification theory, completeness and incompleteness theorems, Herbrand-Gödel computability, resolution principle, equality and inequality relations. Prerequisite: CSCI 431. (4 units)

**520. Advanced Computer Graphics**

Advanced computer graphics concepts, theory and implementation techniques. Topics include shading models, parametric curves and surfaces, hidden edge and surface removal, and anti-aliasing. Prerequisites: CSCI 420. (4 units)

**521. Field Programmable Gate Array Design**

FPGA design rules, timing, latency, optimizations, ASIC conversion, state machines, implementing arithmetic, counters, memory, error detection and correction, simulation, and layout. Materials fee required. Three hours lecture and three hours laboratory. Prerequisite: CSCI 401. (4 units)

**524. Supercomputing and Visualization**

Design and implementation of scientific applications on high performance computers emphasizing graphics and visualization techniques. Topics include parallel algorithm development, multiprocessor and multicomputer programming, and real-time visualization programming of computationally intensive problems in the sciences. Prerequisite: CSCI 202 or consent of instructor. (4 units)

**525. Parallel Algorithms and Programming**

Topics include algorithm design, analysis, and programming of high performance computers. Also covered are control-parallel versus data-parallel approaches, PRAM algorithm design, and selected parallel programming languages. Four hours lecture. Prerequisite: CSCI 401. (4 units)

**530. Data Communications and Networks**

Topics include baseband and broadband signals and modulation schemes. Error detecting and correcting codes, ISO protocol standard, packet switching and various local network schemes. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisites: CSCI 313 or 598, and 330. (4 units)

**531. High Performance Networks**

High performance network methodologies. Methods to develop network performance measures and models. Introduction to path cost estimation and service reliability issues. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: CSCI 530 or consent of instructor. (4 units)

**535. Numerical Computation**

Introduction to scientific computing. Algorithms related to approximations, zero findings, numerical differentiation and integration, data fitting and interpolation, nonlinear equations. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: senior standing or consent of instructor. (4 units)

**540. System Simulation**

Theory and implementation of computerized modeling. Examples will include administrative, physical and biological systems. Prerequisite: CSCI 330 or consent of instructor. (4 units)

**546. Introduction to Theory of Computation**

Deterministic and non-deterministic Turing machines, decidable and undecidable problems, complexity classes P and NP. Formerly CSCI 505. Prerequisite: CSCI 431. (4 units)

**550. Advanced Bioinformatics I: Sequence Analysis**

Pairwise and multiple sequence alignment of strings and relations to biology. Building phylogenetic trees from sequences. Predicting and analyzing RNA secondary structure. Three hours discussion and two hours activity. Prerequisites: CSCI 431 and senior standing or consent of instructor. (4 units)

**551. Advanced Bioinformatics II: Numerical Modeling**

Numerical techniques for the modeling and simulation of biological and chemical systems using ordinary and partial differential equations, and stochastic variables. Three hours discussion and two hours activity. Prerequisite: CSCI 535. (4 units)



**556. Introduction to Formal Methods, Models and Languages**

Applications of logic and mathematics in documenting problems, requirements, specifications, designs, and software. Formal modeling languages. Diagrammatic, algebraic, and tabular models. Model checking. Students prepare, check, and present models using techniques in the literature. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisites: CSCI 320 and 330. (4 units)

**565. Systems Programming**

Concepts of, and implementation techniques for systems software such as assemblers, editors, interpreters, linkers, loaders and operating systems. Prerequisite: CSCI 460. (4 units)

**570. Compilers**

Interpreter and compiler structures. Topics include symbol tables, lexical and syntactic analyzers, and object code generation. Three hours lecture and two hours activity laboratory. Materials fee required. Formerly CSCI 470. Prerequisites: CSCI 313, 320 and 330. (4 units)

**572. Database Systems**

Basic concepts of database design and theory, including underlying storage structures and alternative approaches to database models (relational, object-relational, network and hierarchical). Hands-on applications with one or more commercial database management systems. Three hours lecture and two hours activity laboratory. Materials fee required. Formerly CSCI 480. Prerequisite: CSCI 353. (4 units)

**575. Internship in Computer Science**

Supervised work and study in private or public organizations. Graded credit/no credit. Prerequisites: a minimum grade point average of 3.0 and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken. (4 units)

**580. Advanced Database Systems**

Advanced description: advanced study of components of general database systems and other topics such as implementation methods, query language design, reliability, integrity, performance measures, distributed database systems and database machines. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: CSCI 572. (4 units)

**594. Topics in Computer Science**

An in-depth consideration of selected areas of computer science. May be repeated for credit as topics change. Prerequisite: CSCI 431 or consent of instructor. (4 units)

**595. Independent Study**

Laboratory and/or library research conducted under the direction of a faculty member. A total of four units in CSCI 595 may be applied toward the computer science, computer systems, computer engineering, and bioinformatics majors. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-4 units)

**598. Foundations of Computer Architecture**

Boolean algebra and logic gates; combinational and sequential logic; processor design; data path design; control design; memory organization; and system organization. May not be counted as upper-division elective units for the B.S. in Computer Science, B.A. in Computer Systems, B.S. in Computer Engineering, or B.S. in Bioinformatics. Prerequisites: CSCI 202, MATH 272, and consent of instructor. (4 units)

**599. Foundations of Software Systems**

Software development process which includes software life-cycles, software techniques and technologies used to produce large software systems; operating systems including processes, input/output, memory management, and file systems. May not be counted toward the B.S. in Computer Science, B.A. in Computer Systems, B.S. in Computer Engineering, or B.S. in Bioinformatics. Prerequisites: CSCI 330 and consent of instructor. (4 units)

# CRIMINAL JUSTICE

## Department of Criminal Justice

Social and Behavioral Sciences Building, Room 209  
(909) 537-5506 <http://criminaljustice.csusb.edu/>

### Bachelor of Arts

- Criminal Justice
- Criminal Justice - Crime Analysis Option
- Criminal Justice - Paralegal Studies Option

### Minor

- Criminal Justice
- Paralegal Studies

### Master of Arts

- Criminal Justice
- (Degree requirements can be found on Page 390.)

### Certificate Programs

- Criminal Justice
- Paralegal Studies

**ACULTY:** Gisela Bichler, Frances Coles, John Conley, Christine Famega, Larry Gaines (Chair), Brian Levin, Deborah Parsons, Andrea Schoepfer, Pamela Schram, Dale Sechrest, Stephen Tibbetts, John Worrall

A system of criminal justice must meet the needs of each citizen as well as the needs of complex social, economic and governmental institutions. The Bachelor of Arts degree program in criminal justice was developed with these needs in mind and is appropriate for both career-bound preservice students and inservice personnel in law enforcement, probation, parole, corrections, social service agencies and related areas.

In addition, the program is designed to provide students with an appropriate academic background for continuing their graduate studies in criminal justice, criminology or other areas such as law.

The criminal justice major is an interdisciplinary program with enough flexibility to permit students to pursue their own interests. For example, students wishing to emphasize law enforcement may select appropriate courses within the major. Students directed toward probation, parole or corrections work are advised to select courses accordingly.

The paralegal studies option and certificate program are designed to prepare and qualify students for employment as paralegals in the private and public sectors. As such they provide opportunities for a variety of individuals to become acquainted with the field of law. A paralegal is essentially a legal assistant who works under the supervision of a lawyer and functions as a vital member of a law office team. Such paraprofessional positions have been created by many public and private agencies, and government law offices to help meet the increasing demands for their services.

Paralegal work involves doing legal research, interviewing clients, representing clients before some administrative agencies, assisting in the drafting and interpreting of legal documents and participating in various other paraprofessional activities. Those with an interest in legal studies will find the program rewarding as an introduction to the area of legal studies or as an in-depth study of some one aspect of law.

## B.A. IN CRIMINAL JUSTICE

### Requirements (68 units)

### Total units required for graduation: 180

### Requirements for the B.A. in Criminal Justice:

Lower-division requirements, prerequisites for upper-division courses (8 units)

1. CJUS 101. Introduction to the Criminal Justice System (4)
2. CJUS 102. Criminal Law (4)

Upper-division requirements (24 units)

1. CJUS 311. Research Methods in Criminal Justice (4)
2. CJUS 312. Statistics in Criminal Justice (4)
3. CJUS 320. Theories of Crime and Delinquency (4)
4. CJUS 330. Correctional Theory and Institutions (4)
5. CJUS 340. Police and Police Systems (4)
6. CJUS 598. Integrative Studies in Criminal Justice (4)

Electives (36 units)

**Note:** Students transferring from community colleges may substitute a maximum of 12 lower-division units selected from administration of justice courses toward the electives category.

1. Thirty-six units chosen from:
  - CJUS 106. Introduction to Criminal Investigation (4)
  - CJUS 354. Victimology (4)
  - CJUS 361. Comparative Criminal Justice Systems (4)
  - CJUS 370. Law and the Courts (4)
  - CJUS 430. Correctional Administration (4)
  - CJUS 431. Community Corrections (4)
  - CJUS 435. Correctional Counseling (4)
  - CJUS 440. Police Administration (4)
  - CJUS 441. Community Policing (4)
  - CJUS 451. Women and Crime (4)
  - CJUS 452. Occupational and Corporate Crime (4)
  - CJUS 453. Gangs (4)
  - CJUS 455. Forensic Profiling (4)
  - CJUS 460. Alcohol, Drugs and the Criminal Justice System (4)
  - CJUS 462. Domestic Violence and the Criminal Justice System (4)
  - CJUS 465. Hate Crime Law and Policy (4)
  - CJUS 466. Justice and the Media (4)
  - CJUS 470. Environmental Crime Prevention (4)
  - CJUS 504. Criminal Procedure (4)
  - CJUS 550. Crime and Intelligence Analysis (4)
  - CJUS 554. Terrorism (4)
  - CJUS 555. Homeland Security (4)
  - CJUS 570. Crime in Public Spaces (4)
  - CJUS 575. Internship in Criminal Justice (4)
  - CJUS 580. Juvenile Justice System (4)
  - CJUS 590. Topics in Criminal Justice (4)
  - CJUS 595. Independent Study (1-4) for a total of (4)
  - CJUS 597. Senior Honors Project (4)

**Note:** With consent of department course substitution committee, eight upper-division units in related fields may be substituted for eight units of the elective requirement.

## **B.A. IN CRIMINAL JUSTICE - CRIME ANALYSIS OPTION**

### **Requirements (98 units)**

#### **Total units required for graduation: 180**

### **Requirements for the B.A. in Criminal Justice - Crime Analysis Option**

Lower-division requirements, prerequisites for upper-division courses (26 units)

1. CJUS 101. Introduction to the Criminal Justice System (4)
2. CJUS 102. Criminal Law (4)
3. CJUS 106. Introduction to Criminal Investigation (4)
4. GEOG 100. Introduction to Human Geography (4)
5. GEOG 103. Physical Geography (5)
6. GEOG 202. Introduction to Geographic Information Systems and Mapping (5)

Upper-division requirements (32 units)

1. CJUS 311. Research Methods in Criminal Justice (4)
2. CJUS 312. Statistics in Criminal Justice (4)
3. CJUS 455. Forensic Profiling (4)
4. CJUS 470. Environmental Crime Prevention (4)
5. CJUS 550. Crime and Intelligence Analysis (4)
6. CJUS 570. Public Space and Crime (4)
7. CJUS 575. Internship in Criminal Justice (4)
8. CJUS 595. Independent Study (4)

Electives (40 units)

1. Twelve units chosen from:
  - CJUS 320. Theories of Crime and Delinquency (4)
  - CJUS 340. Police and Police Systems (4)
  - CJUS 452. Occupational and Corporate Crime (4)
  - CJUS 453. Gangs (4)
  - CJUS 504. Criminal Procedure (4)
  - CJUS 554. Terrorism (4)
  - CJUS 555. Homeland Security (4)
2. At least 20 units chosen from:
  - GEOG 201. Map Interpretation (4)
  - GEOG 305. Geographic Statistics and Research Methods (4)
  - GEOG 306. Remote Sensing of Environment (4)
  - GEOG 307. Transportation Issues and Development (4)
  - GEOG 308. Advanced Geographic Information Systems (5)
  - GEOG 312. Geography of the Developing World (4)
  - GEOG 313. Geography of the Developed World (4)
  - GEOG 322. United States and Mexico Border Issues (4)
  - GEOG 341. Military Geography (4)
  - GEOG 402. Geographic Information Systems Applications (5)
  - GEOG 403. Advanced Map Design (5)
  - GEOG 406. Digital Image Processing (4)
  - GEOG 420. Geography of Economic Activity (4)
3. At least eight units from:
  - CSCI 125. Programming in Visual Basic (4)
  - CSCI 136. HTML Programming (2)
  - CSCI 201. Computer Science I (4)
  - CSCI 202. Computer Science II (4)
  - CSCI 298. Application Software Topics (2)
  - CSCI 322. Web Page Programming (4)
  - CSCI 330. Data Structures (4)

Or at least eight units from:

  - ACCT 211. Introductory Accounting I (4)
  - ACCT 212. Introductory Accounting II (4)
  - INFO 102. Introduction to Information Technology (2)
  - INFO 103. Using Information Technology Applications (2)

- INFO 274. Data Base Management and Policies (4)
- INFO 275. Information Networking and Security (4)
- INFO 309. Information Management (4)

**Note:** Students transferring from community colleges may substitute a maximum of eight units selected from geography courses and four units of CSCI, INFO, or ACCT toward the electives category

## **B.A. IN CRIMINAL JUSTICE - PARALEGAL STUDIES OPTION**

### **Requirements (68 units)**

#### **Total units required for graduation: 180**

### **Requirements for the B.A. in Criminal Justice - Paralegal Studies Option:**

Lower-division requirements, prerequisites for upper-division courses (12 units)

1. CJUS 101. Introduction to the Criminal Justice System (4)
2. CJUS 102. Criminal Law (4)
3. PLST 100. Introduction to Law (4)

Upper-division requirements (24 units)

1. CJUS 311. Research Methods in Criminal Justice (4)
2. CJUS 312. Statistics in Criminal Justice (4)
3. PLST 371. Contract Law (4)
4. PLST 372. Tort Law (4)
5. PLST 385. Legal Research (4)
6. PLST 386. Legal Writing (4)

Electives (32 units)

**Note:** Students transferring from community colleges may substitute a maximum of 8 lower-division units selected from paralegal courses toward the electives category.

1. Thirty-two units chosen from:
  - CJUS 370. Law and the Courts (4)
  - CJUS 504. Criminal Procedure (4)
  - PLST 370. Wills, Estates and Trusts (4)
  - PLST 373. Property Law (4)
  - PLST 376. Family Law (4)
  - PLST 377. Fundamentals of Litigation (4)
  - PLST 378. Corporate Law (4)
  - PLST 575. Internship in Paralegal Studies (4)
  - PLST 590. Topics in Paralegal Studies (4)
  - PLST 595. Independent Study (1-4) for a total of (4)

A maximum of eight units may be chosen from the following:

  - ACCT 211. Introductory Accounting I (4)
  - BIOL 223. Human Physiology and Anatomy I (4)
  - COMM 311. Business and Professional Communication (4)
  - COMM 441. Interviewing (4)
  - COMM 522. Mediation Theory and Practice (4)
  - PSCI 410. American Constitutional Law (4)
  - PSCI 500. International Law (4)

## **MINOR IN CRIMINAL JUSTICE**

### **Requirements (28 units)**

#### **Requirements for a minor in Criminal Justice:**

1. CJUS 101. Introduction to the Criminal Justice System (4)
2. CJUS 102. Criminal Law (4)
3. CJUS 320. Theories of Crime and Delinquency (4)
4. CJUS 330. Correctional Theory and Institutions (4)
5. CJUS 340. Police and Police Systems (4)
6. CJUS 370. Law and the Courts (4)
7. Four units chosen from upper-division electives in Criminal Justice.

**MINOR IN PARALEGAL STUDIES****Requirements (28 units)**

Requirements for a minor in Paralegal Studies:

1. PLST 100. Introduction to Law (4)
2. PLST 385. Legal Research (4)
3. PLST 386. Legal Writing (4)
4. Sixteen units chosen from:
  - PLST 370. Wills, Estates and Trusts (4)
  - PLST 371. Contract Law (4)
  - PLST 372. Tort Law (4)
  - PLST 373. Property Law (4)
  - PLST 376. Family Law (4)
  - PLST 377. Fundamentals of Litigation (4)
  - PLST 378. Corporate Law (4)
  - PLST 590. Topics in Paralegal Studies (4)

**DEPARTMENTAL HONORS**

Students majoring in criminal justice are eligible to receive honors in criminal justice at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major;
3. An overall undergraduate grade point average of 3.0 ("B");

Students interested in receiving this recognition must initiate the process by filing a formal application with the chair of the Criminal Justice Department.

**CERTIFICATE PROGRAMS**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. See Page 58 for further certificate requirements.

**Certificate in Criminal Justice****Certificate Requirements (32 units)**

1. CJUS 101. Introduction to the Criminal Justice System (4)
2. CJUS 102. Criminal Law (4)
3. CJUS 320. Theories of Crime and Delinquency (4)
4. CJUS 330. Correctional Theory and Institutions (4)
5. CJUS 340. Police and Police Systems (4)
6. CJUS 370. Law and the Courts (4)
7. Eight units chosen from upper-division electives in criminal justice.

**Certificate in Paralegal Studies****Certificate Requirements (92 units)**

General Education (28 units)

1. ENG 101. Freshman Composition (4)
2. Four units chosen from:
  - MATH 110. College Algebra (4)
  - MATH 115. The Ideas of Mathematics (4)
  - MATH 120. Pre-Calculus Mathematics (4)
  - MATH 211. Basic Concepts of Calculus (4)
3. Four units chosen from:
  - COMM 180. Critical Thinking Through Argumentation (4)
  - MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)
  - PHIL 200. Critical Thinking Through Symbolic Logic (4)
  - PSYC 105. Critical Thinking Through Problems Analysis (4)
  - SOC 180. Critical Thinking about Social Problems (4)
4. PSCI 203. American Government (4)
5. SSCI 306. Expository Writing in the Social Sciences (4)

6. Integrative Capstone in the Social and Behavioral Sciences

Four units chosen from:

- SSCI 300. Nonwestern World (4)
- SSCI 304. Contemporary Latin America (4)
- SSCI 315. Cultural Adaptation: The Quest for Survival (4)
- SSCI 316. Race and Racism (4)
- SSCI 320. Understanding Capitalism (4)
- SSCI 321. Urbanization and the Urban Environment (4)
- SSCI 325. Perspectives on Gender (4)
- SSCI 345. Religious Expression in America (4)
- SSCI 350. Roots of Modern Racism in America (4)

**Note:** Student may receive credit for only one of the following courses:

- HUM 325. Perspectives on Gender
- NSCI 325. Perspectives on Gender
- SSCI 325. Perspectives on Gender

7. Integrative Capstone in the Humanities

Four units chosen from:

- HUM 319. Myth, Metaphor and Symbol (4)
- HUM 325. Perspectives on Gender (4)
- HUM 328. Asian Cultural Traditions (4)
- HUM 330. Arts and Ideas (4)
- HUM 335. The Origin and Contemporary Role of Latino Culture (4)
- HUM 340. Interpretation and Values (4)
- HUM 344. Ideas in American Culture (4)
- HUM 350. The Cultures of American Childhood (4)
- HUM 370. African Heritage in the Arts (4)
- HUM 375. The World of Islam (4)
- HUM 380. Comparative Studies in the Arts: East and West (4)
- HUM 385. A Cultural History of Fashion (4)

**Note:** Student may receive credit for only one of the following courses:

- HUM 325. Perspectives on Gender
- NSCI 325. Perspectives on Gender
- SSCI 325. Perspectives on Gender

**Legal Speciality (36 units)**

1. Required courses (20 units)

- PLST 100. Introduction to Law (4)
- PLST 371. Contract Law (4)
- PLST 372. Tort Law (4)
- PLST 385. Legal Research (4)
- PLST 386. Legal Writing (4)

2. Elective courses (16 units)

A minimum of eight units must be taken from the following:

- PLST 370. Wills, Estates and Trusts (4)
- PLST 373. Property Law (4)
- PLST 376. Family Law (4)
- PLST 377. Fundamentals of Litigation (4)
- PLST 378. Corporate Law (4)
- PLST 575. Internship in Paralegal Studies (4)
- PLST 590. Topics in Paralegal Studies (4)
- PLST 595. Independent Study (1-4)

No more than eight units taken from the following may count towards the major:

- ACCT 211. Introductory Accounting I (4)
- BIOL 223. Human Physiology and Anatomy I (5)
- CJUS 370. Law and the Courts (4)
- CJUS 504. Criminal Procedure (4)
- COMM 311. Business and Professional Communication (4)
- COMM 441. Interviewing (4)
- COMM 522. Mediation Theory and Practice (4)
- PSCI 410. American Constitutional Law (4)
- PSCI 500. International Law (4)



## General Electives (28 units)

1. Twenty-eight units chosen from upper-division courses in any field.

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**COURSE OFFERINGS IN  
CRIMINAL JUSTICE (CJUS)**


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**Lower Division****101. Introduction to the Criminal Justice System**

A descriptive overview of the adult and juvenile justice system, from the commission of crimes and offenses through sentencing and appeal procedures. Criminal justice standards and goals and the relationship of the social and behavioral sciences to criminal justice will be emphasized. (CJUS 101=CAN AJ 2) (4 units)

**102. Criminal Law**

Historical development of criminal law and its contemporary application. Focus on the interrelationship between criminal law and the criminal justice system. (CJUS 102=CAN AJ 4) (4 units)

**106. Introduction to Criminal Investigation**

Examination of crime, evidence and police procedures in investigating crime. Investigation of crime, including organized crime, street crime and white collar crime. (CJUS 106=CAN AJ 8) (4 units)

**Upper Division**

CJUS 101 and 102 are prerequisites for all upper-division courses.

**311. Research Methods in Criminal Justice**

Introduction to scientific methodology and research designs used to conduct basic and applied research in the criminal justice field. Emphasis on scientific operationalization, survey methodology, and concepts of evaluation design. (4 units)

**312. Statistics in Criminal Justice**

Introduction to statistical reasoning and social science statistics commonly used in criminal justice. Includes descriptive, inferential and predictive statistics, with emphasis on interpretation rather than calculation. Prerequisites: CJUS 311 and MATH 110 or 115 or equivalent. (4 units)

**320. Theories of Crime and Delinquency**

Causes of crime and delinquency with emphasis on sociological factors. (4 units)

**330. Correctional Theory and Institutions**

History and theory of punishment; overview of history of correctional institutions; analysis and evaluation of contemporary institutional corrections; consideration of research concerning correctional institutions. (4 units)

**340. Police and Police Systems**

Analysis of police, police systems and the police role; limitations imposed on law enforcement in a democratic society in accordance with the Constitution; problems affecting crime control and the interdependence of police and community. (4 units)

**354. Victimology**

Victim role, criminal-victim relationships, and societal reaction to victimization, including crisis-intervention centers, court related victim/witness services, restitution and compensation. (4 units)

**361. Comparative Criminal Justice Systems**

Description and analysis of selected international criminal justice systems. Emphasis on administrative functions, processes and outcomes. (4 units)

**370. Law and the Courts**

Nature, functions, limitations and objectives of law, criminal courts, civil courts, the grand jury and petit jury, family law, and civil liability for police and correctional officers. Emphasis on practical legal problems confronting criminal justice system workers and administrators. (4 units)

**430. Correctional Administration**

In-depth study of the administration and management of correctional agencies. Emphasis on organizational structure, functions and behavioral processes. Prerequisite: CJUS 330 or equivalent. (4 units)

**431. Community Corrections**

Issues and trends in community based corrections; alternatives to incarceration including diversion, restitution, community treatment facilities, halfway houses, probation and parole, and such developments as house arrest and electronic surveillance. Special emphasis on the functions, strengths, and problems of community based programs. (4 units)

**435. Correctional Counseling**

Examination of the history, theory and practice of counseling services within the correctional setting. Topics include rehabilitation (research and application of findings), limitations of counseling, legal liabilities of counselors, and the integration of treatment with other correctional goals. (4 units)

**440. Police Administration**

In-depth study of the administration and management of law enforcement agencies. Emphasis on organizational structure, functions and behavioral processes. Prerequisite: CJUS 340 or equivalent. (4 units)

**441. Community Policing**

Analysis of law enforcement strategies to secure cooperative police-community ventures aimed at enhancing community order and suppressing crime. Consideration of strategies designed to improve public relations. Prerequisite: CJUS 340 or equivalent. (4 units)

**451. Women and Crime**

A critical study of women as offenders, victims and workers within the criminal justice system. (GE=G2) (4 units)

**452. Occupational and Corporate Crime**

Definition, history, extent, causes, consequences and enforcement methods regarding white collar, occupational and corporate crime in business, the professions, corporations, unions and government. (4 units)

**453. Gangs**

Gangs and the effects they have on society. Historical developments and recent trends. Review and evaluation of programs that attempt to prevent, intervene, and suppress gang activity. (4 units)

**455. Forensic Profiling**

Forensic techniques used to aid legal authorities in identifying suspects and acquiring evidence toward solving crimes. Forensic profiles in various criminal justice components, such as law enforcement activities and jury selection. Formerly a topic under CJUS 590. (4 units)

**460. Alcohol, Drugs, and the Criminal Justice System**

Study of the history and development of criminal justice policy concerning alcohol and illegal drugs; consideration of the manufacture, importation, distribution of illegal drugs; particular emphasis placed on the impact of alcohol and illegal drug use on communities and the criminal justice system. (4 units)

**462. Domestic Violence and the Criminal Justice System**

Examination of violence in the family setting, including spousal abuse, child abuse and elder abuse; consideration of legal issues and of short term consequences for individuals, families and the community; response and responsibilities of the criminal justice system. (4 units)

**465. Hate Crime Law and Policy**

Analysis of the characteristics, prevalence, causes, and types of hate crimes in the United States. In addition, case law and statutes relating to hate crimes will be examined. (4 units)

**466. Justice and the Media**

Examination of the relationship between criminal justice and the media, including consideration of the impact of the media on attitudes and perceptions of crime and criminals, the relationship of the media and crime control, and the impact of the media on the operations of the agencies in the criminal justice system. (4 units)

**470. Environmental Crime Prevention**

Crime Prevention Through Environmental Design (CPTED) and Situational Crime Prevention used by criminal justice agencies, community planners and architects, to increase security of public and private facilities. (4 units)

**504. Criminal Procedure**

Examination of the rules governing criminal procedure. Impact of statutes and case law on criminal justice practitioners including the 4th, 5th, 6th, 8th and 14th Amendments as they affect the accused, the convicted, and the employees working in the criminal justice system. Formerly CJUS 304. Prerequisites: CJUS 102 and consent of instructor. (4 units)

**550. Crime and Intelligence Analysis**

Analysis of existing criminal justice information systems with current computer applications in order to assist criminal investigations, examine crime patterns and resolve community crime problems. Analytical techniques including link diagrams, telephone tolls, and visual investigations. Prerequisites: CJUS 311 and 312 or equivalent. (4 units)

**554. Terrorism**

Characteristics and causes of terrorism emerging in the 21st century. An analysis from a criminal justice perspective of terror movements affecting the United States covering legal issues, investigations, and criminal profile. (4 units)

**555. Homeland Security**

Examination of homeland security events including radiological, biological and chemical events. Emphasis will be given to prevention, preparedness, and response. The roles of local, state and federal agencies are examined. (4 units)

**570. Crime in Public Spaces**

Field research on the interrelationship between the built urban environment and crime. Involvement in a community project to study public places that generate and attract crime in order to develop creative solutions. Prerequisite: CJUS 311. (4 units)

**575. Internship in Criminal Justice**

Supervised work and study in private or public organizations. Open only to criminal justice majors. May be repeated for credit for a total of eight units; only four may be used in the major. Graded credit/no credit. Prerequisite: consent of internship coordinator. (4 units)

**580. Juvenile Justice System**

History, development and theory of the juvenile justice system. Formerly CJUS 380. (4 units)

**590. Topics in Criminal Justice**

Special topics in criminal justice. May be repeated for credit with consent of instructor as topics change. Prerequisite: junior, senior or graduate standing. (1-4 units)

**595. Independent Study**

In-depth research into special topics concerned with the criminal justice system utilizing readings, library and/or field research. May be repeated for credit for a total of eight units; only four may be used in the major. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department chair's approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-4 units)

**597. Senior Honors Project**

Original research in an area of criminal justice studies, culminating in a major research report receiving approval of the criminal justice faculty. Enrollment limited to students whose formal application for departmental honors is approved. (4 units)

**598. Integrative Studies in Criminal Justice**

Overview and integration of major issues in criminal justice. Cannot be counted toward the M.A. in Criminal Justice. Limited to senior and graduate students. (4 units)

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**COURSE OFFERINGS IN****PARALEGAL STUDIES (PLST)**

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**Lower Division****100. Introduction to Law**

A general introduction to the law and the legal system. Focus will be on the role of the attorney and the paralegal within the legal system. (4 units)

**Upper Division****370. Wills, Estates and Trusts**

Study of law relating to the control and disposition of property inter vivos (between living persons) and after death, wills, intestate succession (descent and distribution), future interests and trusts, estates in land, principles of estate planning and administration of an estate. Prerequisites: PLST 385 and 386 or consent of instructor. (4 units)

**371. Contract Law**

Study of law relating to contract formation, formalities, performance and breach. Effect on a contractual relationship of various types of subsequent conduct by the contracting parties and remedies available for breach. Introduction to the Commercial Code of California. Prerequisites: PLST 385 and 386 or consent of instructor. (4 units)

**372. Tort Law**

Legal liability for wrongful interference with the person; tangible property, real and personal; intangible interests; and advantageous relations. Prerequisites: PLST 385 and 386 or consent of instructor. (4 units)

373. Property Law

Basic principles of law relating to various types of property interests: real and personal, tangible and intangible, public and private; acquisition; bailment; fixtures; deeds; escrow, recording and search of public documents and security instruments in connection with real property. Prerequisites: PLST 385 and 386 or consent of instructor. (4 units)

376. Family Law

Formation and dissolution of the family unit: custody, support, property rights and obligations. Prerequisites: PLST 385 and 386 or consent of instructor. (4 units)

377. Fundamentals of Litigation

Studies of trials at common law and in equity, including examination, competency and privileges of witnesses, judicial notice, burden of proof and presumptions; tactics of litigation, discovery, fact investigation, jurisdiction, remedies, civil procedure and drafting of pleadings. Prerequisites: PLST 385 and 386 or consent of instructor. (4 units)

378. Corporate Law

Legal status of the corporate entity, corporate structure and distribution of powers and duties among shareholders, directors and officers. Prerequisites: PLST 385 and 386 or consent of instructor. (4 units)

385. Legal Research

Methods of legal research techniques used to resolve legal questions. Introduction to law libraries and the various types and uses of legal materials available in the California and federal systems. (4 units)

386. Legal Writing

Introduction to the various forms and functions of legal writing using acquired research skills to apply and communicate, in writing, the law as it applies to a specific legal problem. Prerequisite: PLST 385 or consent of instructor. (4 units)

575. Internship in Paralegal Studies

Supervised work and study in public and private legal organizations. May be repeated for credit for a total of eight units; only four may be used in the major. Graded credit/no credit. Prerequisites: completion of PLST 385 and 386, 16 additional units of paralegal certificate course work, and consent of paralegal studies coordinator. (4 units)

590. Topics in Paralegal Studies

Selected current issues and topics in the paralegal field. May be repeated for credit as topics change. Prerequisites: PLST 385 and 386. (1-4 units)

595. Independent Study

Special topics involving library and/or field research. May be repeated for credit for a total of eight units; only four may be used in the major. Prerequisites: a minimum overall grade point average of 3.0, PLST 385 and 386, consent of instructor and coordinator, approval of a written proposal of a project submitted in advance of the quarter in which the course is to be taken. (4 units)

# DANCE

## Department of Theatre Arts

Performing Arts Building, Room 111  
(909) 537-5876 <http://cal.csusb.edu/Depts/TheatreArts/>

The following courses are offered in support of various programs offered by the university. For more information about the B.A. in Theatre Arts, Dance Emphasis, see Page 330.

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### COURSE OFFERINGS

#### IN DANCE (DAN)

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##### Lower Division

#### 200. Studies in Dance

Movement study and body conditioning in specific dance styles. May be repeated for credit up to six units per topic. No more than 12 units may be used to satisfy graduation requirements. Prerequisite: KINE 150 or consent of instructor.

- A. Jazz (2 units)
- B. Modern (2 units)
- C. Tap (2 units)
- D. Ballet (2 units)

##### Upper Division

#### 300. Dance Technique

Complex movement technique and artistic interpretation in specific dance styles. May be repeated for credit up to six units per topic. No more than 20 units may be used to satisfy graduation requirements. Prerequisites: DAN 200 or equivalent experience and consent of instructor.

- A. Jazz (2 units)
- B. Modern (2 units)
- C. Tap (2 units)
- D. Ballet (2 units)
- E. Musical Theatre (2 units)

#### 310. World Dance Traditions

Study and application of traditional dance forms from throughout the world. Technique and cultural context will be emphasized. Course may be repeated for credit. One hour lecture and two hours activity.

- A. African (2 units)
- B. South and Central American (2 units)
- C. North American (2 units)
- D. Asian (2 units)
- E. Mediterranean (2 units)

#### 355. Dance Notation

Study and application of written notation for the analysis, reading and preservation of dance. One hour lecture and four hours laboratory. Prerequisite: six units of DAN 300 or consent of instructor. (3 units)

#### 360. Dance History

Chronological study of major styles and personalities in dance. (4 units)

#### 450. Choreography

Study and application of dance composition. May be repeated for credit. One hour lecture and four hours laboratory. Prerequisite: six units of DAN 300 or consent of instructor. (3 units)

#### 481. Creative Dance in the Classroom

Dance techniques that emphasize concentration, imagination, body awareness and self-expression and are designed to develop creative leadership for parents, recreational leaders, elementary and secondary teachers. (4 units)

#### 580. Advanced Creative Dance Methods

Advanced methods for teaching dance techniques, emphasizing concentration, imagination, body awareness, and self-expression. Course intended for teachers and recreation and community leaders who will plan lessons with the California Visual and Performing Arts Framework and Standards. Requires a minimum six-hour field component. Prerequisite: DAN 481. (4 units)



# ECONOMICS

## Department of Economics

Social and Behavioral Sciences Building, Room 327D  
(909) 537-5511 <http://economics.csusb.edu/>

### Bachelor of Arts

Administration: Business Economics (See Page 72.)  
Economics  
Economics - Political Economy

### Minor

Economics  
Political Economy

**FACULTY:** Carolyn Aldana, Parviz Asheghian, Jim Charkins,  
Kazim Konyar, Eric Nilsson, Tom Pierce, Nancy Rose (Chair),  
Mayo Toruño

Economics is the study of how individuals and societies organize the production and distribution of goods and services. This involves an historical understanding of how our economy has developed and how people in various groups (according to gender, race, class) have been affected by it.

One of the tools economics provides is the ability to analyze the possible costs and benefits of competing alternatives. It provides a framework through which difficult choices can be analyzed—whether an individual should go to college now or later, or whether a firm should invest its money in more machines or offer a bonus to its labor force, or whether a government should spend money on schools or military hardware.

Training in economics provides excellent preparation for careers in industry, government and many professions including law, education, public administration and management.

## B.A. IN ECONOMICS

### Requirements (61 units)

**Total units required for graduation: 180**

#### Requirements for the B.A. in Economics:

Lower-division requirements (16 units)

1. ECON 200. Principles of Microeconomics (4)
2. ECON 202. Principles of Macroeconomics (4)
3. Four units chosen from:  
ECON 250. Statistics for Economists (4)  
SCM 210. Applied Business Statistics (4)
4. Four units chosen from:  
MATH 110. College Algebra (4)  
MATH 120. Pre-Calculus Mathematics (4)

Upper-division requirements (45 units)

1. ECON 300. Intermediate Macroeconomics (4)
2. ECON 302. Intermediate Microeconomics (4)
3. ECON 335. Economic Analysis with Microcomputers (5)
4. ECON 500. History of Economic Thought (4)
5. A minimum of four units chosen from Quantitative Analysis courses:  
ECON 322. Managerial Economics (4)  
ECON 340. Advanced Economic Analysis with Microcomputers (4)  
ECON 372. Business Cycles (5)  
ECON 480. Quantitative Methods in Economics (4)  
ECON 490. Introduction to Econometrics (4)

6. A minimum of four units chosen from Applied Field courses:

- ECON 360. Economics of the Environment (4)
- ECON 410. Money and Banking (4)
- ECON 430. International Economics (4)
- ECON 435. Multinational Corporations (4)
- ECON 460. Labor Economics (4)
- ECON 475. Public Finance (4)
- ECON 545. Economics of Water Resources (4)
- ECON 571. Economics of Sports (4)
- ECON 573. Economics of Crime (4)

7. A minimum of four units chosen from Political Economy courses:

- ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)
- ECON 352. Political Economy of Poverty and Discrimination (4)
- ECON 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (4)
- ECON 421. Economic History of the United States (4)
- ECON 445. Political Economy (4)
- ECON 450. Global Economy (4)
- ECON 520. Social Economics (4)
- ECON 530. The Good Economy (4)
- ECON 540. Political Economy of Latin America (4)

8. Sixteen units of additional economics courses. With approval of a departmental advisor, eight units in related fields may be counted toward the course requirement in economics.

**Note:** In addition to the course requirements stated above, students considering graduate study in economics are urged to complete the following courses: ECON 480 and 490, MATH 211, 212, 251 and 331.

## B.A. IN ECONOMICS - POLITICAL ECONOMY

### Requirements (60 units)

**Total units required for graduation: 180**

#### Requirements for the B.A. in Economics - Political Economy:

Lower-division requirements (16 units)

1. ECON 200. Principles of Microeconomics (4)
2. ECON 202. Principles of Macroeconomics (4)
3. Four units chosen from:  
ECON 250. Statistics for Economists (4)  
SCM 210. Applied Business Statistics (4)
4. Four units chosen from:  
MATH 110. College Algebra (4)  
MATH 120. Pre-Calculus Mathematics (4)

Upper-division requirements (44 units)

1. ECON 300. Intermediate Macroeconomics (4)
2. ECON 302. Intermediate Microeconomics (4)
3. ECON 445. Political Economy (4)
4. ECON 500. History of Economic Thought (4)
5. A minimum of twelve units chosen from Political Economy courses:  
ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)  
ECON 352. Political Economy of Poverty and Discrimination (4)  
ECON 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (4)  
ECON 421. Economic History of the United States (4)  
ECON 450. Global Economy (4)  
ECON 520. Social Economics (4)  
ECON 530. The Good Economy (4)  
ECON 540. Political Economy of Latin America (4)

**148 / Economics**

6. Sixteen units of additional economics courses. With approval of a departmental advisor, eight units in related fields may be counted toward the course requirements in economics.

**Note:** In addition to the course requirements stated above, students considering graduate study in economics are urged to complete the following courses: ECON 480 and 490, MATH 211, 212, 251 and 331.

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**MINOR IN ECONOMICS****Requirements (28 units)**

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**Requirements for a minor in Economics:**

Lower-division requirements (8 units)

1. ECON 200. Principles of Microeconomics (4)
2. ECON 202. Principles of Macroeconomics (4)

Upper-division requirements (20 units)

1. ECON 500. History of Economic Thought (4)
2. Sixteen units of additional economics courses.

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**MINOR IN POLITICAL ECONOMY****Requirements (28 units)**

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**Requirements for a minor in Political Economy:**

Lower-division requirements (4 units)

1. ECON 202. Principles of Macroeconomics (4)

Upper-division requirements (24 units)

1. ECON 445. Political Economy (4)
2. ECON 500. History of Economic Thought (4)
3. A minimum of twelve units chosen from:
  - ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)
  - ECON 352. Political Economy of Poverty and Discrimination (4)
  - ECON 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (4)
  - ECON 421. Economic History of the United States (4)
  - ECON 450. Global Economy (4)
  - ECON 520. Social Economics (4)
  - ECON 530. The Good Economy (4)
  - ECON 540. Political Economy of Latin America (4)
4. Four units of additional economics courses.

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**BUSINESS ECONOMICS CONCENTRATION**

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The College of Business and Public Administration offers a concentration in business economics within its Bachelor of Arts degree. See Page 72 for details.

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**DEPARTMENTAL HONORS**

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Departmental honors will be awarded upon graduation to students majoring in economics who have:

1. Earned a 3.5 grade point average in all economics courses attempted at this university;
2. Completed at least half of all work in economics at this university;
3. Been recommended for departmental honors by economics faculty.

Students who qualify for departmental honors are strongly encouraged to discuss with their faculty advisor the possibility of enrolling in ECON 597. Senior Honors Project.

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**OMICRON DELTA EPSILON**

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Students who have completed a minimum of 20 quarter units of economics course work with a grade point average of at least 3.0 ("B") and who also have an overall grade point average of at least 3.0 may join the university's chapter of Omicron Delta Epsilon, the national honor society in economics. Additional information can be obtained from the Department of Economics.

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**COURSE OFFERINGS IN  
ECONOMICS (ECON)**

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**Lower Division****104. Economics of Social Issues**

Economic perspectives on social issues. Cannot be counted toward fulfillment of requirements in the economics major. (GE=D4) (4 units)

**200. Principles of Microeconomics**

Introduction to the economic principles which govern production, exchange, the pricing of goods, services and resources and the distribution of incomes in competitive and noncompetitive markets. (ECON 200=CAN ECON 4) (4 units)

**202. Principles of Macroeconomics**

Introduction to the theory of national income determination with particular emphasis on employment and unemployment, price levels, monetary and fiscal policies, international economic issues and theories of economic growth. (ECON 202=CAN ECON 2) (4 units)

**250. Statistics for Economists**

Introduction to the statistical tools and data used by economists. Three hours lecture and two hours laboratory. Prerequisite: MATH 110. (4 units)

**Upper Division****300. Intermediate Macroeconomics**

Analysis of the problems of measurement and determination of levels of national income, and investigation of macroeconomic policy issues including inflation and unemployment. Prerequisites: ECON 200, 202 and MATH 110. (4 units)

**302. Intermediate Microeconomics**

Detailed analysis of economic behavior of consumers and producers in competitive and noncompetitive markets, and of the criteria for achieving optimality in the allocation and use of resources. Prerequisites: ECON 200, 202 and MATH 110. (4 units)

**311. Economics in the Elementary and Middle School**

Introduces liberal studies students to economics in the California History/Social Science Standards. Students learn to integrate economic principles and theories with the other social sciences. May not be counted toward fulfillment of requirements in the economics major. (4 units)

**322. Managerial Economics**

Application of microeconomic theory and analysis to business and administrative problems. Prerequisites: ECON 200, 202, 335 and MATH 110. (4 units)

**333. Political Economy of Women: Money, Sex, Race, and Power**

Examination of women's economic status. History of women of various races in the U.S. political economy. Exploration of alternative policies. (4 units)

**335. Economic Analysis with Microcomputers**

Formulation and construction of computer models using economics concepts and principles. Application of models to various economic phenomena, deriving solutions under alternative assumptions. Four hours lecture and two hours laboratory. Prerequisites: ECON 200, 202 and MATH 110. (5 units)

**340. Advanced Economic Analysis with Microcomputers**

Application of sophisticated computer software for purposes of economic analysis and modeling. Prerequisite: ECON 335 or consent of instructor. (4 units)

**352. Political Economy of Poverty and Discrimination**

An exploration of the causes of poverty and discrimination in the United States. Historical examination of the policies addressing poverty and discrimination. Analysis of alternative policies. (GE=G2) (4 units)

**357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People**

Examination of lesbian, gay, bisexual and transgendered (LGBT) households and individuals within the economy, including topics such as "gay consumer market," the division of labor within LGBT households, and discrimination based on sexual orientation. (Also offered as WSTD 357. Students may not receive credit for both.) (4 units)

**360. Economics of the Environment**

Economic causes and implications of air and water pollution, urban congestion, natural resource depletion and population growth; examination of the economic impacts of alternative forms of environmental control and protection. (4 units)

**372. Business Cycles**

Causes and nature of business fluctuations. Application of macroeconomic theory and cyclical indicators to detect changes in the U.S. economy using the microcomputer as a forecasting tool. Four hours lecture and two hours laboratory. Prerequisites: ECON 200, 202, 335 and MATH 110. (5 units)

**390. Selected Topics in Economics**

Examination of selected topics of current interest in economics. May be repeated for credit as topics change. (4 units)

**410. Money and Banking**

Demand for money, creation and manipulation of the money supply, and the role of banking and other financial institutions in the United States in determining the level of employment, prices and international payments equilibrium. (4 units)

**421. Economic History of the United States**

Economic history of the United States from the founding of the colonies to the present. (4 units)

**430. International Economics**

Theories of the causes and effects of trade between nations. Study of government policies which alter the pattern of trade between nations. Prerequisites: ECON 200 and 202. (4 units)

**435. Multinational Corporations**

Multinational corporations and the international economic environment in which they operate. Topics include the international monetary system, balance of payments, international capital movements, foreign direct investment, technology transfer, and conflicts between multinational corporations and host countries. (4 units)

**445. Political Economy**

Introduction to economic theories which have their heritage in the work of Karl Marx. Topics may include historical materialism, value theory, crisis theory, imperialism, the labor process, and social structures of accumulation. (4 units)

**450. Global Economy**

Examines factors that give rise to uneven economic growth and economic interdependence among nations. Investigates the organizations and rules of conduct of the global economy. Assesses the costs and benefits of globalization to nations. (4 units)

**460. Labor Economics**

Micro- and macroeconomic aspects of labor markets including the workings of labor markets in competitive and noncompetitive markets, structure and causes of unemployment, incomes policies, and selected institutional topics including the economics of U.S. labor movements. Prerequisite: ECON 200. (4 units)

**475. Public Finance**

Rationale for government actions in an economy which emphasizes private sector allocation; principles of taxation, theories of tax incidence, expenditure evaluation, government sources and uses of revenue, and government budgeting. Prerequisite: ECON 200 or consent of instructor. (4 units)

**480. Quantitative Methods in Economics**

Application of mathematical tools and concepts in formulating and solving economic problems. Prerequisites: ECON 200, 202, and MATH 110 or 120. (4 units)

**490. Introduction to Econometrics**

Various statistical methods of testing economic hypotheses. Prerequisites: ECON 200, 202, MATH 110, and ECON 250 or SCM 210, or equivalent. (4 units)

**500. History of Economic Thought**

Survey of the development of economic doctrines and analyses and concurrent intellectual and social history with emphasis on the ideas of landmark economists from Adam Smith to John Maynard Keynes. (4 units)

**503. Economic Analysis**

An intensive introduction to micro- and macroeconomic concepts for graduate students. Not open to students who have received credit for ECON 200 and 202. Prerequisite: graduate standing. (4 units)

**510. Economics in the Classroom**

Economics method of analysis as it applies to 7th through 12th grade California History/Social Science Standards. (4 units)

**520. Social Economics**

Study of the social, cultural, and political context of economic behavior. Primary focus on the work of Social Economists, Institutionalists, and Post Keynesians. (4 units)

**530. The Good Economy**

Standards used to judge an economy as good or bad including utilitarian, neoclassical welfare economics, Rawlsian, neo-Aristotelian, and/or postmodernist approaches. Formerly a topic under ECON 390. (4 units)

**540. The Political Economy of Latin America**

Study of the economic history and contemporary political economy of Latin America. Theories of imperialism and development, common policy prescriptions (import substitution and Neoliberalism), and popular political movements (e.g. Socialist, Sandinista, Bolivarian) will be integrated into an explanation of the region and selected countries. Formerly a topic under ECON 390. (4 units)

**545. Economics of Water Resources**

Economics of water resources and related policies, with special emphasis on California where water is a scarce resource. Topics include: water supply and economic growth; urban demand for water; water-markets; and water benefit cost analysis. Prerequisites: ECON 200 and 503, or consent of instructor. (4 units)

**571. Economics of Sports**

Investigation of professional and amateur sports using economic analysis, including topics such as the impact of media, player-management relations and unionization, the determination of player salaries, and public financing of new arenas and stadiums. Formerly a topic under ECON 390. (4 units)

**573. Economics of Crime**

Economic analysis of criminal behavior, the criminal legal system, and government anti-crime policies, including topics such as the economic costs and benefits of sentencing policies, capital punishment, drug enforcement laws, and the criminal justice system budgets. Formerly a topic under ECON 390. (4 units)

**575. Internship in Economics**

Supervised work in public or private organizations emphasizing practical applications of economic concepts and relationships. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken. (4 units)

**590. Seminar in Economics**

Intensive study of some phase of economics. May be repeated for credit as subject matter changes and with consent of instructor. (4 units)

**595. Independent Study**

Investigation of special topics not covered by the department's curricular offerings. A total of eight units in ECON 595 may be applied toward the major and graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-4 units)

**597. Senior Honors Project**

Original research in an area of economics, culminating in a major report receiving approval of the economics faculty. Enrollment limited to students whose formal application for admission to the course has been approved by the department chair. (4 units)

**Graduate level courses can be found on Page 393.**



# EDUCATION

## College of Education

College of Education Building, Room 182

(909) 537-5600 <http://www.csusb.edu/coe/>

**NOTE: Room numbers effective Fall 2008, check Summer Schedule of Classes for current locations**

### Basic Teaching Credential Programs

*Accredited by the National Council for Accreditation of Teacher Education (NCATE)*

- Multiple Subject
- Multiple Subject Bilingual, Crosscultural, Language and Academic Development (BCLAD)
- Multiple Subject Credential and Multiple Subject Credential with Bilingual Crosscultural, Language and Academic Development Emphasis (BCLAD) (Intern Track)
- Single Subject
- Single Subject (Intern Track)
- Designated Subjects (Vocational and Adult Education)
- (The following credentials can be found beginning on Page 409.)*
- Preliminary Level I Education Specialist Credential: Early Childhood Special Education
- Professional Clear Level II Education Specialist Credential: Early Childhood Special Education
- Internship Education Specialist Credential: Early Childhood Special Education
- Preliminary Level I Education Specialist Credential: Mild/Moderate Disabilities
- Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities
- Internship Education Specialist Credential: Mild/Moderate Disabilities
- Preliminary Level I Education Specialist Credential: Moderate/Severe Disabilities
- Professional Clear Level II Education Specialist Credential: Moderate/Severe Disabilities
- Internship Education Specialist Credential: Moderate/Severe Disabilities

### Master of Arts in Education

- Bilingual/Cross-Cultural
- Career and Technical Education
- Correctional and Alternative Education
- Curriculum and Instruction
- Environmental Education
- Health Education
- Holistic and Integrative Education
- Instructional Technology
- Kinesiology
- Reading/Language Arts
- Science Education
- Special Education
- Teaching English to Speakers of Other Languages
- (Degree requirements can be found beginning on Page 395.)*

### Master of Arts

- Educational Administration
- (Degree requirements can be found on Page 440.)*
- Rehabilitation Counseling
- (Degree requirements can be found on Page 496.)*

### Master of Science

- Counseling and Guidance
- (Degree requirements can be found on Page 387.)*

## Doctor of Education

Educational Leadership  
*(Degree requirements can be found on Page 444)*

## Specialist and Services Credential Programs

- Adapted Physical Education Specialist
- Administrative Services Preliminary
- Administrative Services Preliminary (Internship)
- Administrative Services Professional
- Preliminary Level I Education Specialist Credential: Early Childhood Special Education
- Professional Clear Level II Education Specialist Credential: Early Childhood Special Education
- Internship Education Specialist Credential: Early Childhood Special Education with EL Authorization
- Preliminary Level I Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization
- Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities
- Internship Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization
- Preliminary Level I Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization
- Professional Clear Level II Education Specialist Credential: Moderate/Severe Disabilities
- Internship Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization
- Pupil Personnel Services: School Counseling
- Pupil Personnel Services: School Psychology
- Pupil Personnel Services: Social Work
- Reading/Language Arts Specialist
- School Nurse
- Supervision and Coordination of Designated Subjects Programs
- (Credential requirements can be found beginning on Page 408.)*

## Certificate Programs

- Crosscultural, Language and Academic Development (CLAD)
- Early Adolescent Education
- Early Childhood Special Education
- Education of the Gifted and Talented
- Educational Professional Services
- Educational Technology
- Environmental Education
- Reading/Language Arts
- Rehabilitation Counseling
- School Business Management
- (Certificate requirements can be found beginning on Page 420.)*

## Specialist Certificate Program

- Resource Specialist in Special Education
- (Certificate requirements can be found on Page 422.)*

## Vocational Education

- Bachelor of Vocational Education
- Bachelor of Science
- (Degree requirements can be found on Page 341.)*

## Division of Teacher Education

### Credentials Office

College of Education Building, Room 102, (909) 537-5609  
<http://www.csusb.edu/coe/case/>

### Masters Program Office and Advanced Credentials

College of Education Building, Room 102, (909) 537-5293  
<http://www.csusb.edu/coe/mac/office/index.html>

### Multiple Subject

College of Education Building, Room 102, (909) 537-5650  
<http://www.csusb.edu/coe/teo/index.html>

### Single Subject

College of Education Building, Room 102, (909) 537-5650  
<http://www.csusb.edu/coe/teo/index.html>

### Special Education

College of Education Building, Room 102, (909) 537-7406

### Supervision Office

College of Education Building, Room 102, (909) 537-5698  
<http://www.csusb.edu/coe/so/index.html>

### Department of Educational Leadership and Curriculum

College of Education Building, Room 374, (909) 537-7404

<http://www.csusb.edu/coe/elc/index.html>

**FACULTY:** Alexander Aitcheson, Bob Bailey, Linda Braatz-Brown, Nick Ferguson, Mark Groen, Juan Gutierrez, James Hill, Susan Jindra, Angela Louque, Thelma Moore-Steward, Ruth Norton, David Stine (Interim Chair), Deborah Stine, Stanley Swartz

**MASTERS:** Curriculum and Instruction  
Educational Administration

### Department of Educational Psychology and Counseling

College of Education Building, Room 243, (909) 537-5606

<http://www.csusb.edu/coe/epc/index.html>

**FACULTY:** Patricia Arlin, Laura Ashcroft, Richard Ashcroft, Tina Besley, Susan Brotherton, Margaret Cooney, Susan Daniels, Carolyn Eggleston, Sherri Franklin-Guy, Thom Gehring, Young Suk Hwang, Todd Jennings, Kurt Kowalski, Camille Mayers, Sang Seok Nam, Brett Nelson, Kathleen Phillips, Ruth Sandlin (Chair), Donna Schnorr, Gary Sherwin, Sue Spitzer, Dwight Sweeney, Judy Sylva, Joseph Turpin, Michael Verdi, Dudley Wiest, John Winslade, Randall Wright

**MASTERS:** Educational Counseling  
Rehabilitation Counseling  
Special Education

### Department of Language, Literacy and Culture

College of Education Building, Room 261, (909) 537-7405

<http://www.csusb.edu/coe/lilc/index.html>

**FACULTY:** Maria Balderrama, Charlotte Black, Diane Brantley, Mary Jean Comadena, Steve Comadena, Sam Crowell, Lynne Diaz-Rico, Barbara Flores, Monica Garcia, Rosalie Giacchino-Baker, Jose Hernandez, Ina Katz, Barbara Larrivee, Brenda Littleton, Robert London, Marjorie McCabe, Enrique Murillo, Gary Negin, Kristine Nicholls, Bonnie Piller, Mary Jo Skillings (Chair), Nena Torrez, Laura Young

**MASTERS:** Bilingual/Cross-Cultural  
Reading/Language Arts  
Teaching English to Speakers of Other Languages

### Department of Science, Mathematics and Technology Education

College of Education Building, Room 335, (909) 537-5290

<http://www.csusb.edu/coe/smte/index.html>

**FACULTY:** Eun-Ok Baek, Bonnie Brunkhorst, Herbert Brunkhorst (Chair), Joseph Jesunathadas, Amy Leh, Brian Newberry, Ron Pendleton, Iris Riggs, Sylvester Robertson, Rowena Santiago, Joseph Scarcella, Donna Shea, Catherine Spencer, Darleen Stoner

**MASTERS:** Career and Technical Education  
Environmental Education  
Instructional Technology

**B.S./B.V.E.:** Vocational Education

The College of Education offers course work designed to prepare students for a variety of careers in education. At the present time, the university is approved to offer the following credentials through the Multiple Subject Teaching Credential Program and the Single Subject

Teaching Credential Program:

- Multiple Subject Credential for teaching in a self-contained classroom (K-12),
- Multiple Subject Bilingual, Crosscultural, Language and Academic Development (BCLAD) Credential for teaching in a self-contained classroom (K-12),
- Multiple Subject or Multiple Subject Bilingual Crosscultural, Language and Academic Development (BCLAD) Credential (intern track) for teaching in a self-contained classroom (K-12) with a bilingual or dual immersion program,
- Single Subject Credential for teaching a single subject in a departmentalized school (all grades),
- Single Subject Credential (intern track) for teaching a single subject in a departmentalized school (all grades),
- Designated Subjects Teaching Credential for technical, trade or vocational subjects or adult education. For information concerning the Bachelor of Vocational Education and the Bachelor of Science in Vocational Education see Page 341.

In general, students electing to pursue an emphasis in elementary teaching should undertake one of the multiple subject credentials. Students wishing to follow an emphasis in secondary teaching should pursue the single subject credential.

Information on graduate programs in education can be found in the graduate studies section beginning on Page 347. These include the Master of Arts in Education, specialist and services credential programs, certificate programs and specialist certificate programs.

The college offers a program leading to the Bachelor of Vocational Education and the Bachelor of Science in Vocational Education. Further information about these degrees is provided on Page 341.

## BASIC TEACHING CREDENTIALS

The CSU prepares teachers for positions in California as well as other states. It is in the student's best interest to be knowledgeable about credential or licensure requirements of the state in which they intend to teach.

## MULTIPLE SUBJECT CREDENTIAL

### Requirements (48 units)

Admission to the university must precede admission to the basic credential program. In preparation for admission to the basic credential program, students must purchase the Handbook for the Multiple Subject Credential Programs at the Coyote Bookstore and attend an orientation session scheduled through the Teacher Education Office, CE-102. At this orientation, students will be assigned an education advisor and receive instructions for completing their Program Admission Files (PAF). For admission to the program, students must have successfully completed the prerequisite courses and successfully completed or be currently enrolled in the pre/corequisite courses.

### Admission to the Program

Students must submit a Program Admission File (PAF) to the Credentials Office, CE-102) at least one quarter prior to enrolling in credential courses.

Students are advised to complete the required California Basic Educational Skills Test (CBEST). Students must provide verification of passing scores on this exam when they apply for admission to supervision.

Admission to the basic credential program as part of the PAF is based on the following criteria and conditions:

1. Completion of an application form;
2. Written verification of a passing score on the CSET examination (credential must be completed within five years of passing the CSET examination;)
3. Two written recommendations by persons who can address scholastic performance and suitability for teaching;
4. Present a written, personal narrative to the assigned education advisor, complete the teacher education interview and obtain the

signature of the advisor. The following criteria are used to assess the interview: oral and written English language usage, professional aptitude, personality and character;

5. Verification of a negative tuberculin examination within the last four years;
6. Academic achievement, verified through transcripts:
  - A. Applicants must possess a minimum undergraduate grade point average of at least 2.67 in all baccalaureate and post-baccalaureate course work or at least 2.75 in the last 90 quarter units attempted;
  - B. Applicants must maintain a grade point average of 3.0 in professional education course work, with no course grade in this area lower than "B-."

No candidate may be recommended for the credential who has received a grade of lower than "C" (2.0) in any non-education course required for the credential, such as the prerequisite courses. In the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement.

7. Documentation of 45 hours of experience in K-12 classrooms; (Information about this requirement is available in the Handbook for the Multiple Subject Credential Programs.)
8. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
9. Completion of a community college or university computer course or an on-line technology skills assessment;
10. Written verification that the California Basic Educational Skills Test (CBEST) has been taken or passing score on CBEST;
11. Satisfactory completion of prerequisite courses:
  - A. ENG 311. The English Language
  - B. One of the following:
    - EELB 301. Growth and Development in Socio-Educational Contexts (4)
    - HD 240. Introduction to Child Development (4) and a concurrent observation course (2)
12. Satisfactory completion of or current enrollment in:
  - A. HSCI 100. Concepts in Health (4)
  - B. One of the following:
    - ESPE 350. Introduction to Special Populations for General Education Teachers (4)
    - PSYC 350. Development of Exceptional Children (4)

### Admission to Supervised Student Teaching

One quarter in advance of the time students intend to enroll in supervised student teaching (EELB 540A), they must submit an application for supervision. This application is due by Friday of the third week of the quarter prior to enrolling in supervised student teaching. (No applications are accepted in the summer quarter.)

Admission to supervised student teaching is based on the following criteria and conditions:

1. Completion of an application form;
2. Verification that the applicant has passed the California Basic Educational Skills Test (CBEST);
3. Satisfactory completion of HSCI 100 and either PSYC 350 or ESPE 350 and Phase I coursework (EELB 312, 313, 315, 317 and 519) with a grade point average of 3.0 ("B") and no course grade lower than "B-" and no non-education course grade lower than a "C" (2.0);
4. Verification of a negative tuberculin examination within the last 4 years;
5. Completion of the upper-division writing requirement at this university, or the equivalent graduation requirement at another accredited institution, or a passing score on the CSUSB Writing Requirement Exemption Evaluation (WREE), or a passing score on the written portion of the CBEST. (CBEST examination does not

meet the graduate entrance writing requirement for the Master of Arts degree.)

All course work taken at another college more than seven years ago, is subject to approval by the director of the Multiple Subject Program. No more than 14 units of the credential program may be transferred. Student teaching is never transferable.

Each applicant is reviewed in terms of all of the above criteria and conditions and must be at least of senior standing. Student teaching for the credential is a full-time assignment for one quarter each of EELB 540A (and 422, 423, 425, 529) and EELB 540B (and 532, 533 and 539). No concurrent course work should be taken beyond the required elementary education courses without permission of the program director.

Students who fail to complete EELB 422, 423, 425, 529, 532, 533, 539, 540A or 540B will be denied continuation in the program. An appeal process is available. Consult the program director for details.

#### Program prerequisites (10 units)

1. Students entering the program must have successfully completed:
  - A. ENG 311. The English Language (4)
  - B. One of the following:
    - EELB 301. Growth and Development in Socio-Educational Contexts (4)
    - HD 240. Introduction to Child Development (4) and a concurrent observation course (2)

#### Program prerequisites or corequisites (6 units)

1. Students entering the program must have successfully completed or be currently enrolled in:
  - A. HSCI 100. Concepts in Health (2)
  - B. One of the following:
    - ESPE 350. Introduction to Special Populations for General Education Teachers (4)
    - PSYC 350. Development of Exceptional Children (4)

### Credential Requirements (48 units)

Completion of the following course work with a grade point average of 3.0 ("B") with no course grade lower than "B-."

#### Phase I

1. EELB 312. Family, Culture and Schooling (2)
2. EELB 313. Pedagogical Foundations for English Language Learners (4)
3. EELB 315. Reading/Language Arts Curriculum and Pedagogy (3)
4. EELB 317. Educational Psychology for a Diverse Society (4)
5. EELB 519. Assessment Seminar I (2)

#### Phase II

##### First quarter of student teaching

1. EELB 422. Classroom Organization, Management and Discipline (2)
2. EELB 423. Mathematics Curriculum and Pedagogy (4)
3. EELB 425. Literacy and Second Language Acquisition for the Intermediate Reader and Beyond (3)
4. EELB 529. Assessment Seminar II (2)
5. EELB 540A. Supervised Student Teaching in Multiple Subjects I (6)

#### Phase III

##### Second quarter of student teaching

1. EELB 532. Science/Health Curriculum and Pedagogy (4)
2. EELB 533. Social Studies and the Arts Curriculum and Pedagogy (4)
3. EELB 539. Assessment Seminar III (2)
4. EELB 540B. Supervised Student Teaching in Multiple Subjects II (6)



## Additional Requirements

Students must successfully complete:

- One of the following to fulfill the United States Constitution requirement (or successful completion of an examination administered through the College of Extended Learning):
    - HIST 146. American Civilization (4)
    - HIST 200. United States History to 1877 (4)
    - HIST 540. Constitutional History of the United States (4)
    - PSCI 203. American Government (4)
    - PSCI 410. American Constitutional Law (4)
    - PSCI 411. The Bill of Rights (4)
  - The Reading Instruction Competence Assessment (RICA) exam with a passing score;
  - The teacher performance assessment with a passing score.
- Upon successfully completing the program and additional requirements above, candidates are eligible to apply for the preliminary credential.

Requirements for the Professional Clear Credential may be obtained from the employing school district.

**Note:** Students must consult the current information sheet for this credential in the Teacher Education Office, CE-102. In addition, students may be eligible for SB 57 Early Completion Internship Option. See information in the Teacher Education Office.

## MULTIPLE SUBJECT BILINGUAL, CROSS-CULTURAL, LANGUAGE AND ACADEMIC DEVELOPMENT (BCLAD) CREDENTIAL

### Requirements (48 units)

Admission to the university must precede admission to the basic credential program. In preparation for admission to the basic credential program, students must purchase the Handbook for the Multiple Subject Credential Programs in the Coyote Bookstore and attend an orientation session scheduled through the Teacher Education Office, CE-102. At this orientation, students will be assigned an education advisor and receive instructions for completing their Program Admission File (PAF). For admission to the program, students must have successfully completed the prerequisite courses and successfully completed or be currently enrolled in the pre/corequisite courses.

### Admission to the Program

Students must submit a Program Admission File (PAF) to the Credentials Office, CE-102, at least one quarter prior to enrolling in credential courses.

Students are advised to complete the required California Basic Educational Skills Test (CBEST). Students must provide verification of passing scores on this exam when they apply for admission to supervision.

Admission to the basic credential program as part of the PAF is based on the following criteria and conditions:

- Completion of application form;
- Written verification of a passing score on the CSET examination (credential must be completed within five years of passing the CSET examination);
- Two written recommendations by persons who can address scholastic performance and suitability for teaching;
- Present a written, personal narrative to the assigned education advisor, complete the teacher education interview and obtain signature of the advisor. The following criteria are used to assess the interview: oral and written English and Spanish language usage, professional aptitude, personality and character;
- Verification of a negative tuberculin examination within the last 4 years;

- Academic achievement, verified through transcripts:
  - Applicants must possess a minimum undergraduate grade point average of at least 2.67 in all baccalaureate and post-baccalaureate course work or at least 2.75 in the last 90 quarter units attempted;
  - Applicants must maintain a grade point average of 3.0 in professional education course work, with no course grade in this area lower than "B-."
 

No candidate may be recommended for the credential who has received a grade lower than "C" (2.0) in any non-education course required for the credential, such as the prerequisite courses. In the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement.
- Documentation of 45 hours of experience in K-12 classrooms; (Information about this requirement is available in the Handbook for the Multiple Subject Credential Programs.)
- Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
- Completion of a community college or university computer course or an on-line technology skills assessment;
- Written verification that the California Basic Educational Skills Test (CBEST) has been taken or passing score on CBEST;
- Satisfactory completion of prerequisite courses:
  - ENG 311. The English Language (4)
  - One of the following:
    - EELB 301. Growth and Development in Socio-Educational Contexts (4)
    - HD 240. Introduction to Child Development (4) and a concurrent observation course (2)
- Satisfactory completion of or current enrollment in:
  - HSCI 100. Concepts in Health (2)
  - One of the following:
    - ESPE 350. Introduction to Special Populations for General Education Teachers (4)
    - PSYC 350. Development of Exceptional Children (4)

### Admission to Supervised Student Teaching

One quarter in advance of the time students intend to enroll in student teaching (EELB 540A), they must submit an application for supervision. This application is due by Friday of the third week of the quarter prior to enrolling in supervised student teaching. (No applications are accepted in the summer quarter.)

Admission to supervised student teaching is based on the following criteria and conditions:

- Completion of an application form;
- Verification that the applicant has passed the California Basic Educational Skills Test (CBEST);
- Satisfactory completion HSCI 100 and Phase I coursework (EELB 312, 313, 316, 317 and 519) with a grade point average of 3.0 ("B") in education, with no course grade lower than "B-" and no non-education course grade lower than a "C" (2.0);
- Verification of a negative tuberculin examination within the last 4 years;
- Completion of the upper-division writing requirement at this university or the equivalent graduation requirement at another accredited institution, a passing score on CSUSB Writing Requirement Exemption Evaluation (WREE), or a passing score on the written portion of the CBEST. (CBEST examination does not meet the graduate entrance writing requirement for the Master of Arts degree.)

All course work taken at another college, or more than seven years ago, is subject to approval by the coordinator of the multiple subject program. No more than 14 units of the credential program may be transferred. Student teaching is never transferable.



Each applicant is reviewed in terms of all of the above criteria and conditions and must be at least of senior standing. Student teaching for the credential is a full-time assignment for one quarter each of EELB 540A (and 422, 423, 425, 529) and EELB 540B (and 532, 534, and 539). No concurrent course work should be taken beyond the elementary education courses without permission of the program director.

Students who fail to complete EELB 422, 423, 425, 529, 532, 534, 539, 540A or 540B will be denied continuation in the program. An appeal process is available. Consult the program director for details.

#### Program prerequisites (10 units)

1. Students entering the program must have successfully completed:
  - A. ENG 311. The English Language (4)
  - B. One of the following:
    - EELB 301. Growth and Development in Socio-Educational Contexts (4)
    - HD 240. Introduction to Child Development (4) and a concurrent observation course (2)

#### Program prerequisites or corequisites (6 units)

1. Students entering the program must have successfully completed or be currently enrolled in:
  - A. HSCI 100. Concepts in Health (2)
  - B. One of the following:
    - ESPE 350. Introduction to Special Populations for General Education Teachers (4)
    - PSYC 350. Development of Exceptional Children (4)

### Credential Requirements (48 units)

Completion of the following course work with a grade point average of 3.0 ("B") with no course grade lower than "B-."

#### Phase I

1. EELB 312. Family, Culture and Schooling (2)
2. EELB 313. Pedagogical Foundations for English Language Learners (4)
3. EELB 316. Reading/Language Arts (Primary Language) Curriculum and Pedagogy (3)
4. EELB 317. Educational Psychology for a Diverse Society (4)
5. EELB 519. Assessment Seminar I (2)

#### Phase II

##### First quarter of student teaching

1. EELB 422. Classroom Organization, Management and Discipline (2)
2. EELB 423. Mathematics Curriculum and Pedagogy (4)
3. EELB 425. Literacy and Second Language Acquisition for the Intermediate Reader and Beyond (3)
4. EELB 529. Assessment Seminar II (2)
5. EELB 540A. Supervised Student Teaching in Multiple Subjects I (6)

#### Phase III

##### Second quarter of student teaching

1. EELB 532. Science/Health Curriculum and Pedagogy (4)
2. EELB 534. Social Studies and the Arts (Primary Language) Curriculum and Pedagogy (4)
3. EELB 539. Assessment Seminar III (2)
4. EELB 540B. Supervised Student Teaching in Multiple Subjects II (6)

### Additional Requirements

Students must successfully complete:

1. Both of the following:
  - HUM 335. The Origin and Contemporary Role of Latino Culture (4)

SPAN 415. Comparative Linguistics: Spanish/English (4)  
(This course has prerequisites.)

2. One of the following to fulfill the United States Constitution requirement (or successful completion of an examination administered through the College of Extended Learning):
  - HIST 146. American Civilization (4)
  - HIST 200. United States History to 1877 (4)
  - HIST 540. Constitutional History of the United States (4)
  - PSCI 203. American Government (4)
  - PSCI 410. American Constitutional Law (4)
  - PSCI 411. The Bill of Rights (4)
3. The Reading Instruction Competence Assessment (RICA) exam with a passing score;
4. The teacher performance assessment with a passing score.

Upon successfully completing the program and additional requirements above, candidates are eligible to apply for a basic preliminary credential.

Requirements for the Professional Clear Credential may be obtained from the employing school district.

**Note:** Students must consult the current information sheet for this credential in the Teacher Education Office, CE-102. In addition, students may be eligible for SB 57 Early Completion Internship Option. See information in the Teacher Education Office.

### MULTIPLE SUBJECT CREDENTIAL and MULTIPLE SUBJECT CREDENTIAL with Bilingual, Crosscultural Language and Academic Development Emphasis (BCLAD) (INTERN TRACK)

#### Requirements (60 units)

The multiple subject internship is an alternate track for those students who have been placed in an employment setting. Specific admission requirements must be met beyond those of the basic credential program and additional course work for students in this track is required.

Admission to the university must precede admission to this basic credential program. In preparation for admission to the basic credential program, students must purchase the Handbook for the Multiple Subject Credential Programs at the Coyote Bookstore and attend an orientation session scheduled through the Teacher Education Office. At this orientation, students will be assigned an education advisor and receive instructions for completing their Program Admission File (PAF).

For admission to the program, students must have successfully completed the prerequisite courses and successfully completed or be currently enrolled in the pre/corequisite courses.

#### Admission to the Program

Students must submit a Program Admission File (PAF). The PAF is to be submitted to the Credentials Office, CE-102, at least one quarter prior to enrolling in program courses.

Admission to the intern track, as part of the PAF is based on the following criteria and conditions:

1. Completion of an application form;
2. Written verification of a passing score on the CSET examination (credential must be completed within five years of passing the CSET examination);
3. Three written recommendations by persons who can address the scholastic performance and suitability for teaching, at least one from the current employer;
4. Present a written, personal narrative to the assigned education advisor, complete the teacher education interview and obtain

the signature of the advisor. The following criteria are used to assess the interview: oral and written English and for BCLAD Spanish language usage, professional aptitude, personality and character;

5. Verification of a negative tuberculin examination within the last 4 years;
6. Academic achievement verified through transcripts:
  - A. Applicants must possess a minimum undergraduate grade point average of at least 2.67 in all baccalaureate and post-baccalaureate course work or at least 2.75 in the last 90 quarter units attempted;
  - B. Applicants must maintain a grade point average of 3.0 in professional education course work, with no course grade in this area lower than "B."

No candidate may be recommended for the credential who has received a grade of less than "C" (2.0) in any non-education course required for the credential, such as the prerequisite courses. In the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement;
7. Documentation of 45 hours of experience in K-12 classrooms such as instructional aide or substitute teacher; (Information about this requirement is available in the Handbook for the Multiple Subject Credential Programs.)
8. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
9. Completion of a community college or university computer course or an on-line technology skills assessment;
10. Written verification of a passing score on the California Basic Educational Skills Test (CBEST);
11. Completion of the upper-division writing requirement at the university or the equivalent graduation requirement at another accredited institution, or a passing score on the CSUSB Writing Requirement Exemption Evaluation (WREE), or a passing score on the written portion of the CBEST; (CBEST examination does not meet the graduate entrance writing requirement for the Master of Arts degree.)
12. One of the following to fulfill the United States Constitution requirement (or successful completion of an examination administered through the College of Extended Learning):
 

HIST 146.	American Civilization (4)
HIST 200.	United States History to 1877 (4)
HIST 540.	Constitutional History of the United States (4)
PSCI 203.	American Government (4)
PSCI 410.	American Constitutional Law (4)
PSCI 411.	The Bill of Rights (4)
13. Completion of a bachelor's degree;
14. Satisfactory completion of prerequisite courses:
  - A. ENG 311. The English Language (4)
  - B. One of the following:
 

EELB 301.	Growth and Development in Socio-Educational Contexts (4)
HD 240.	Introduction to Child Development (4) and a concurrent observation course (2)
15. Satisfactory completion of or current enrollment in:
  - A. HSCI 100. Concepts in Health (2)
  - B. One of the following:
 

ESPE 350.	Introduction to Special Populations for General Education Teachers (4)
PSYC 350.	Development of Exceptional Children (4)

Each applicant is reviewed in terms of all of the above criteria. The final step involves obtaining employment from one of the approved cooperating school districts. (A listing of these districts is in the Handbook for Multiple Subject Credential Programs.)

Candidates apply for an intern credential once they are admitted to the intern track and have secured a job. The intern is employed full

time in a multiple subject teaching assignment in an approved cooperating school district while enrolled in program coursework.

The CSUSB Intern Track may begin in any quarter and continues for a maximum timeline of two years. If a candidate does not secure a job, he/she may pursue the basic credential program as a student teacher.

Program prerequisites (10 units)

1. Students entering the program must have successfully completed:
  - A. ENG 311. The English Language (4)
  - B. One of the following:
 

EELB 301.	Growth and Development in Socio-Educational Contexts (4)
HD 240.	Introduction to Child Development (4) and a concurrent observation course (2)

Program prerequisites or corequisites (6 units)

1. Students entering the program must have successfully completed or be currently enrolled in:
  - A. HSCI 100. Concepts in Health (2)
  - B. One of the following:
 

ESPE 350.	Introduction to Special Populations for General Education Teachers (4)
PSYC 350.	Development of Exceptional Children (4)

### Credential Requirements (60 units)

Completion of the following coursework with a grade point average of 3.0 ("B") with no course grade lower than "B-."

#### Phase I: Pre-supervision

1. EELB 312. Family, Culture and Schooling (2)
2. EELB 313. Pedagogical Foundations for English Language Learners (4)
3. Three units chosen from:
 

EELB 315.	Reading/Language Arts Curriculum and Pedagogy (3)
EELB 316.	Reading/Language Arts (Primary Language) Curriculum and Pedagogy (3)
4. EELB 317. Educational Psychology for a Diverse Society (4)
5. EELB 519. Assessment Seminar I (2)

### Admission to Supervised Intern Teaching

One quarter in advance of the time students intend to enroll in Phase II courses (EELB 422, 423, 425, and 560A), they must submit an application for supervision. This application is due by Friday of the third week of the quarter prior to enrolling in supervised intern teaching. (No applications are accepted in the summer quarter.)

Admission to supervised intern teaching is based on the following criteria and conditions:

1. Completion of an application form;
2. Satisfactory completion of HSCI 100 and either ESPE 350 or PSYC 350 and Phase I course work with a grade point average of 3.0 ("B") and no course grade lower than "B-;"
3. Verification that applicant holds an internship credential.

All course work taken at another college, or more than seven years ago, is subject to approval by the Director of the Multiple Subject Credential Program. No more than 14 units of the credential program may be transferred. Student/Intern teaching is never transferable.

The intern is employed full time in a teaching assignment in an approved cooperating school district while enrolled in courses at CSUSB. The study plan is as follows:

#### Phase II

First quarter of supervised intern teaching

1. EELB 422. Classroom Organization, Management and Discipline (2)
2. EELB 423. Mathematics Curriculum and Pedagogy (4)

3. EELB 425. Literacy and Second Language Acquisition for the Intermediate Reader and Beyond (3)
4. EELB 560A. Supervised Intern Teaching in Multiple Subjects I (8)

### Phase III

Second quarter of supervised intern teaching

1. EELB 532. Science/Health Curriculum and Pedagogy (4)
2. EELB 529. Assessment Seminar II (2)
3. EELB 560B. Supervised Intern Teaching in Multiple Subjects II (8)

### Phase IV

Third quarter of supervised intern teaching

1. Four units chosen from:
  - EELB 533. Social Studies and the Arts Curriculum and Pedagogy (4)
  - EELB 534. Social Studies and the Arts (Primary Language) Curriculum and Pedagogy (4)
2. EELB 539. Assessment Seminar III (2)
3. EELB 560C. Supervised Intern Teaching in Multiple Subjects III (8)

## Additional Requirements

Students must successfully complete:

*For Multiple Subject BCLAD interns only:*

Both of the following to meet language and culture requirements:

1. HUM 335. The Origin and Contemporary Role of Latino Culture (4)
2. SPAN 415. Comparative Linguistics: Spanish/English (This course has prerequisites.) (4)

*For Multiple Subject and Multiple Subject BCLAD interns:*

1. The Reading Instruction Competence Assessment (RICA) exam with a passing score.
  2. The teacher performance assessment with a passing score.
- Upon successfully completing the program and additional requirements above, candidates are eligible to apply for a the preliminary credential.

Requirements for the Professional Clear Credential may be obtained from the employing school district.

**Note:** Students must consult the current information sheet for this credential in the Teacher Education Office, CE-102. In addition, students may be eligible for SB 57 Early Completion Internship Option. See information in the Teacher Education Office.

## SINGLE SUBJECT TEACHING CREDENTIAL -

### Student Teaching Track

#### Requirements (48 units)

Admission to the university must precede admission to the credential program. This is a three-quarter program that begins in the Fall Quarter for full-time students. Part-time students can complete the program in two years (or five quarters) and can enroll in the program in the Fall or Winter Quarter.

### Admission to the Program and Student Teaching

In addition to the general requirements for the university, students must meet specific requirements for admission to the student teaching track prior to enrolling in the program:

1. Successfully complete the California Basic Educational Skills Test (CBEST);
2. Demonstrate Subject Matter Competency (SMC) in the content area they plan to teach. Subject Matter Competency can be demonstrated by having a degree from a California Commission on Teacher Credentialing (CCTC) waiver program or passing (if necessary) the appropriate CSET and/or Single Subject Assessment

for Teaching (SSAT) examination as early as possible in order to be able to provide verification of passing scores with their application for admission to the program;

3. Complete the Program Application File (PAF) and submit to the Credentials Office, CE-102;
4. Two written recommendations, at least two from faculty members in the student's major department;
5. Meet with and obtain signature of a Secondary Education faculty member on an advising form or attend a program advisory meeting to determine requirements of the program;
6. Verification of a negative tuberculin examination within the last 24 months;
7. Academic Achievement

A. Applicants must possess the following minimum grade point averages:

1. A grade point average of 2.67 in all baccalaureate and postbaccalaureate course work or at least 2.75 in the last 90 quarter units attempted.
2. A grade point average of 3.0 ("B") in professional education course work with no course grade in this area lower than "B-." Students can only discount one grade in the program courses. They can only repeat a total of two courses in the program.

B. If necessary, written verification of registration for or passage of subject matter competence in the appropriate single subject credential area.

No candidate may be recommended for the credential who has received a grade less than "C" (2.0) in any other course required for the credential, such as health science courses.

8. Complete A or B below:

A. Completion of one of the following approved subject matter preparation programs or these majors at this university:

#### Single Subject Credential

Art  
English  
Foreign Language

Health Science  
Foundational Mathematics/  
Mathematics  
Music

Physical Education  
Sciences

Social Science

#### Degree Major

B.A. Art (Plan I)

B.A. English

B.A. Spanish or

B.A. French

B.S. Health Sciences

B.A. Mathematics

B.S. Mathematics

B.A. Music (Music  
Education)

B.S. Kinesiology

B.A. in the Sciences

B.S. in the Sciences

B.A. Social Sciences

For further information on other majors, supplementary authorizations, examinations and waivers, students should contact the Teacher Education Office and/or the appropriate major department.

- B. Completion of the CSET (California Subject Examination for Teachers) and/or the Single Subject Assessment for Teaching (SSAT) in the specialty teaching area the student is planning to teach;
9. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
10. Completion of or concurrent enrollment in the upper-division writing requirement at the university or the equivalent graduation requirement at another accredited institution, or a score of 39 or better on the written portion of the CBEST; (CBEST exam does not meet the graduate entrance writing requirement for the Master of Arts degree.)
11. Written verification a passing score on the CBEST;



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12. In addition, the following criteria are used: professional aptitude, personality and character, oral and written language usage, and interest in multicultural education;
13. All course work taken at another institution, or more than seven years ago, is subject to approval by the director of the Single Subject Program. No more than 14 quarter units of the credential program may be transferred. Student teaching is never transferable. Students transferring units from another institution may be required to take HSCI 100 and ESPE 350.

Each applicant must complete SMC and have a B.A. degree in the content area they are planning to teach before student teaching and internship teaching and associated courses. Student teaching for the preliminary credential is a full-time assignment for three quarters (ESEC 550A, 550B and 550C) that only begins in the fall or winter quarters. No concurrent course work should be taken beyond the required for that quarter without permission from the director of the Single Subject Program. Students who fail to successfully complete any program courses will be denied continuation in the program. An appeals process is available. Consult the Teacher Education Office for details.

**Credential Requirements for Student Teaching One Year Program**

Once admission to the program has been granted and program requirements have been successfully completed, students may enroll in the following courses. Students must successfully complete all the courses in each quarter before enrolling in subsequent quarters.

**First Quarter: Foundational Theories of Secondary Education (14 units)**

1. ESEC 405. Introduction to Secondary School Culture (4)
2. ESEC 407. Secondary School Teaching (4)
3. ESEC 410. Adolescent Development and Learning (4)
4. ESEC 550A. Student Teaching Experience (2)  
(These courses must be taken concurrently.)

**Second Quarter: Classroom Perspectives (18 units)**

1. ESEC 413. Language Interaction in the Classroom (4)
2. ESEC 417. Educational Psychology: Instructional Theory, Assessment and Classroom Management (4)
3. ESEC 506. Curriculum and Instruction in Content Areas (4)
4. ESEC 512. Principles of Pedagogy (2)
5. ESEC 550B. Student Teaching (4)

**Third Quarter: Implementation of Reflection on Instruction (16 units)**

1. ESEC 419. Literacy Across the Curriculum (4)
2. ESEC 514. Assessment and Reflection of Instruction (2)
3. ESEC 550C. Student Teaching (8)
4. ESEC 602. Special Topics in Secondary Education (2)

**Credential Requirements for Student Teaching Two Year Program**

Once admission to the program has been granted and all program requirements have successfully been completed, students may enroll in the following courses. Students must successfully complete all the courses in each quarter before enrolling in subsequent quarters and Subject Matter Competency.

**Foundational Theories of Secondary Education and Classroom Perspectives****First Quarter**

1. ESEC 405. Introduction to Secondary School Culture (4)
2. ESEC 410. Adolescent Development and Learning (4)

**Second Quarter**

1. ESEC 407. Secondary School Teaching (4)
2. ESEC 413. Language Interaction in the Classroom (4)
3. ESEC 506. Curriculum and Instruction in Content Areas (4)

**Third Quarter**

1. ESEC 417. Educational Psychology: Instructional Theory, Assessment and Classroom Management (4)
2. ESEC 419. Literacy Across the Curriculum (4)
3. ESEC 550A. Student Teaching Experience (2)

**Fourth Quarter**

1. ESEC 512. Principles of Pedagogy (2)
2. ESEC 550B. Student Teaching (4)
3. ESEC 602. Special Topics in Secondary Education (2)

**Fifth Quarter**

1. ESEC 514. Assessment and Reflection on Instruction (2)
2. ESEC 550C. Student Teaching (8)

**Additional Information**

Students who fail to successfully complete any program course with a "B-" or better will be denied continuation in the program. An appeal process is available. Consult the Teacher Education Office for details.

Upon completing all requirements for the single subject program, the candidate will be awarded a certificate of completion from California State University, San Bernardino and may apply for a preliminary credential.

Within two years candidates must complete an Induction Program that is offered by the school district in which they secure employment. Preliminary credential students may obtain a professional clear credential by meeting the Induction Program of the school district.

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**SINGLE SUBJECT CREDENTIAL-  
INTERN TRACK****Requirements (56 units)**

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The single subject internship is an alternate program for those student teachers who have been placed in an employed setting. This is a five-quarter program that begins in the Fall or Winter Quarter.

**Admission to the Program**

In addition to the general admission requirements for the university, students must meet the following requirements prior to enrolling in the student teaching track:

1. Successfully complete the California Basic Educational Skills Test (CBEST);
2. Demonstrate Subject Matter Competency (SMC) in the content area they plan to teach. Subject Matter Competency can be demonstrated by having a degree from a California Commission on Teacher Credentialing (CCTC) waiver program or passing (if necessary) the appropriate CSET and/or Single Subject Assessment for Teaching (SSAT) examination as early as possible in order to be able to provide verification of passing scores with their application for admission to the program.
3. Successfully complete the U. S. Constitution requirement, CPR examination and be employed in a district that has an internship contract with the Division of Teacher Education.

**Admission to the Program**

Interns must turn in a Program Application File (PAF) with all the information to the Credentials Office, CE-102. Candidates will not be considered until all the following information is provided:

1. Two letters from faculty members in the student's major department and at least one from a principal or teacher who can attest to the applicant's teaching skills in classroom settings;
2. Meeting with education advisor and signed advising form or attend a program advisory meeting to determine requirements of the program;
3. Verification of a negative tuberculin examination within the last 24 months;



4. Academic Achievement
  - A. Applicants must possess the following minimum grade point averages:
    1. A grade point average of 2.67 in all baccalaureate and post-baccalaureate course work or at least 2.75 in the last 90 quarter units attempted;
    2. A grade point average of 3.0 ("B") in professional education course work with no course grade in this area lower than "B-." Students can only discount one grade in the program courses. They can repeat a total of two courses in the program;
  - B. Written verification of CCTC waiver program or passing the California Subject Examinations for Teachers (CSET), and/or the Single Subject Assessment for Teaching (SSAT) in the content area in which the candidate is planning to teach.
5. Completion of one of the following approved subject matter preparation programs within one of these majors at this university. Note: A list of the required grade point averages for each subject matter area is available from the Credentials Office and the Teacher Education Office.

**Single Subject****Credential****Degree Major**

Art	B.A. Art (Plan I)
English	B.A. English
Foreign Language	B.A. Spanish or B.A. French
Health Science	B.S. Health Sciences
Foundational Mathematics/ Mathematics	B.A. Mathematics B.S. Mathematics
Music	B.A. Music (Music Education)
Physical Education Sciences	B.S. Kinesiology B.A. in the Sciences B.S. in the Sciences
Social Science	B.A. Social Sciences

For further information on other majors, supplementary authorizations, examinations and waivers, students should contact the Teacher Education Office and/or the appropriate major department.

OR

Completion of the CSET (California Subject Examination for Teachers) and/or the Single Subject Assessment for Teaching (SSAT) in the specialty teaching area the student is planning to teach;

6. Submit passage of the U.S. Constitution requirement and the CPR examination;
7. Completion of the upper-division writing requirement at the university or the equivalent graduation requirement at another accredited institution, or a score of 41 or better on the written portion of the CBEST; (CBEST examination does not meet the graduate entrance writing requirement for the Master of Arts degree.)
8. Submission of evidence that the applicant has passed the California Basic Educational Skills Test (CBEST);
9. Interns must be employed in a school district or school site that has an internship contract with the College of Education.
10. In addition, the following criteria are used: professional aptitude, personality and character, oral and written language usage, and interest in multicultural education.

All course work taken at another institution, or more than seven years ago, is subject to approval by the director of the Single Subject Program. No more than 14 quarter units of the credential program may be transferred. Student teaching or internship teaching is never transferable. Students transferring units from another institution may be required to take HSCI 100 and ESPE 350.

Each applicant is reviewed in terms of all of the above criteria. In addition, internship teaching for the preliminary credential is a full-time assignment for five quarters that only begins in the fall, winter or spring quarters. No concurrent course work should be taken beyond the required program courses without permission from the program coordinator.

Students who fail to successfully complete any aspect of the program will be denied continuation in the program. Students must continue to be employed in a school district that has an internship contract agreement with the Teacher Education Office in their content area for two years. An appeal process is available. Consult the Teacher Education Office for details.

**First Year****Foundational Theories of Secondary Education****Requirements for Internship Program****First Quarter (10 units)**

1. ESEC 405. Introduction to Secondary School Culture (4)
2. ESEC 407. Secondary School Teaching (4)
3. ESEC 555. Internship Seminar I (2)

**Second Quarter (18 units)**

1. ESEC 410. Adolescent Development and Learning (4)
2. ESEC 413. Language Interaction in the Classroom (4)
3. ESEC 506. Curriculum and Instruction in Content Areas (4)
4. ESEC 570A. Intern Supervision I (6)

**Third Quarter (10 units)**

1. ESEC 417. Educational Psychology Instructional Theory, Assessment and Classroom Management (4)
2. ESEC 419. Literacy Across the Curriculum (4)
3. ESEC 556. Internship Seminar II (2)

**Second Year****Implementation of Reflection on Instruction**

1. Admittance to the second year will be satisfactory completion of the first year of the program.

**First Quarter (8 units)**

1. ESEC 512. Principles of Pedagogy (2)
2. ESEC 570B. Intern Supervision II (6)

**Second Quarter (10 units)**

Students must successfully pass ESEC 512 before enrolling in these second quarter classes.

1. ESEC 514. Assessment and Reflection on Instruction (2)
2. ESEC 570C. Intern Supervision III (6)
3. ESEC 602. Special Topics in Secondary Education (2)

Applications for intern candidacy must be submitted in the quarter prior to the commencement of the internship. It is the responsibility of the intern candidate to obtain employment. The university provides the names of school districts that have intern contracts. Applicants who are accepted to intern candidacy, but who do not find a position, are qualified for regular student teaching.

**Additional Requirements**

Upon completing the requirements for the internship program, candidates may apply for a preliminary credential. Within two years candidates must complete an induction program in the district in which they are employed to meet additional CCTC requirements to obtain a professional clear credential.

**Note:** Pending state legislation may require curricular changes. Students must consult the current information sheet for this credential in the Teacher Education Office, CE-102. In addition, students may be eligible for SB 57 Early Completion Internship Option. See information in the Teacher Education Office.

## DESIGNATED SUBJECTS TEACHING CREDENTIAL PROGRAM (VOCATIONAL AND ADULT EDUCATION)

**Requirements (Part-time Credential 12 units,  
Full-time Credential 20 units)**

### Admission to the Program

Appropriate work experience and a high school diploma (or the equivalent) are required for admission to the Designated Subjects Teaching Credential Program. Applicants should have at least five years of verifiable work experience in the vocation, skill, or trade to be taught. Appropriate academic course work may be counted for up to two of the five years of required work experience. At least one year of the work experience must have been completed within the three years immediately preceding application for the credential.

Additional information is posted on the program web site at [HTTP://VE.CSUSB.EDU](http://VE.CSUSB.EDU).

### Credential Requirements

#### Part-time Credential (12 units)

1. EVOC 501. Principles and Methods for Teaching Designated Subjects (4)
2. EVOC 518. Field Work in Designated Subjects (4)
3. EVOC 519. Computer Applications for Vocational Education Teachers (4)

#### Full-time Credential (20 units)

1. EVOC 501. Principles and Methods for Teaching Designated Subjects (4)
2. EVOC 502. Instructional Support for Teaching Designated Subjects (4)
3. EVOC 503. Contemporary Issues in Teaching Designated Subjects (4)
4. EVOC 518. Field Work in Designated Subjects (4)
5. EVOC 519. Computer Applications for Vocational Education Teachers (4)

### Additional Requirements

(Full-time Credential)

Students must also complete:

1. One of the following to fulfill the United States Constitution requirement (or successful completion of an examination administered through the College of Extended Learning):
  - HIST 146. American Civilization (4)
  - HIST 200. United States History to 1877 (4)
  - HIST 540. Constitutional History of the United States (4)
  - PSCI 203. American Government (4)
  - PSCI 410. American Constitutional Law (4)
  - PSCI 411. The Bill of Rights (4)

In both, part-time and full-time credentials, a "preliminary" credential is issued on the basis of documented work experience, and the "clear" credential issued after the applicant has completed the indicated course work, met the health education requirement (listed below) and actually taught under the "preliminary" credential.

Applicants having questions about designated subjects credentials should contact the Coordinator of the Vocational Education Program. For information concerning the Bachelor of Vocational Education and the Bachelor of Science in Vocational Education, see Page 341.

Health education requirement

(Full-time and Part-time Credentials):

1. One of the following to fulfill the health education requirement:
  - HSCI 332. Health Education in the Elementary School (4)
  - HSCI 440. Family Health Issues for Educators (4)

*Undergraduate course listings can be found on the following pages. Graduate course listings can be found on the page numbers indicated below.*

- EDUC Education (general and core courses)
- EADM Educational Administration (listed on Page 440)
- EDCA Correctional and Alternative Education
- ECLG Educational Counseling (listed on Page 388)
- EDCI Curriculum and Instruction
- EDSC Science Education (listed on Page 433)
- EELB Elementary Education
- EENV Environmental Education (listed on Page 431)
- EESL English as a Second Language
- ERDG Reading Education (listed on Page 432)
- EREH Rehabilitation Counseling (listed on Page 497)
- ESEC Secondary Education
- ESPE Special Education
- ETEC Instructional Technology
- EVOC Vocational Education (listed on Pages 342, 438)

## COURSE OFFERINGS IN EDUCATION (EDUC)

### Lower Division

#### 201. Introduction to Tutorial Techniques

Introductory course in individual and small group instruction with emphasis on lesson planning, teaching methods and evaluation for tutorial settings. (2 units)

### Upper Division

#### 302. Education in American Society

Politics, organization, structure and philosophical concepts of schooling and education including an analysis of significant problems and issues in American education. Open to students in all majors. (4 units)

#### 306. Expository Writing for Education

Writing related to education including documented research reports, evaluations, and analytical papers. Revision and rewriting will be required. Course fulfills the upper-division writing requirement. May not be counted for fulfilling major requirements for any degree program offered by the College of Education. No more than one of the expository writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or a designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or the course requested will be cancelled. Formerly EDUC 495. Graded A, B, C/no credit. Prerequisites: ENG 101 and a minimum of 90 quarter (60 semester) units of college credit. (GE=F1) (4 units)

#### 542. Seminar in Education

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-5 units)

#### 595. Independent Study

Special topics involving library and/or field research. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and college approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-4 units)

## **COURSE OFFERINGS IN CORRECTIONAL AND ALTERNATIVE EDUCATION (EDCA)**

### **Upper Division**

#### **514. Foundations of Institutional Education: History and Literature**

Historic and current correctional and alternative education delivery structures, the prison reform/correctional education (CE) movement and the classic literature. Emphasis on major CE development in North America, CE paradigms, anomalies, and trends. (Also offered as EDCA 614. Students may not receive credit for both.) Students in EDCA 614 must complete additional requirements. Formerly EDUC 574. (4 units)

#### **516. Teaching the Institutional Student**

Identified student needs, underlying assumptions, curricular components, and instructional methodologies appropriate to institutional education. Relevant traditional and innovative theory, practice and trends in instruction will be considered. (Also offered as EDCA 616. Students may not receive credit for both.) Students in EDCA 616 must complete additional requirements. Formerly EDUC 580. (4 units)

#### **518. Social and Cultural Dynamics of Institutional Education**

Interpersonal communication and professional identity issues as they relate to the meanings of everyday events in schools and schooling within confinement institutions. Emphases include post-modernism and approaches of communication and critical theories. Addresses issues such as culture shock, typical experiences of institutional educators, the struggle for recognition and respect, burn-out and coping strategies to help avoid it, and retributive and restorative justice. (Also offered as EDCA 618. Students may not receive credit for both.) Students in EDCA 618 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

#### **520. Educational Change in Institutional Settings**

Reforming prisoners and prisons through democratic methods. Emphasizes student learning and personal/professional growth. (Also offered as EDCA 620. Students may not receive credit for both.) Students in EDCA 620 must complete additional requirements. Formerly EDUC 575. Prerequisite or corequisite: EDCA 514. (4 units)

#### **528. Special Education in Correctional Institutions**

Meeting the statutory/regulatory requirements of Federal- and State-funded education for disabled learners in confinement institutions. Special emphases include the identification of students with disabilities, definitions of a free and appropriate public education, staffing and records maintenance, confidentiality and due process, parental involvement, and the impact of current legislation. Historic and legal case histories are addressed, as well as current trends. (Also offered as EDCA 628. Students may not receive credit for both.) Students in EDCA 628 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

#### **530. Alternative and Correctional Education**

Similarities of alternative and correctional education students, and dissimilarities of organizational configuration and location in government. Introduction to the history and literature of alternative education, its role in selected urban and rural communities, and current trends. Includes the effects of educational reform, innovations

consistent with the aspiration for multicultural education, and the teaching implications for the shift from a behavioral to a cognitive psychological base. (Also offered as EDCA 630. Students may not receive credit for both.) Students in EDCA 630 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

#### **532. Career and Vocational Education in Correctional Institutions**

History and specialized literature of vocational education in correctional institutions, linkages between academic/vocational instruction, and strategies for short- and long-term programs. Includes occupational projections, statutory and regulatory prohibitions for ex-felons in the workforce, relationships with the State departments of Education and Labor, and job preparation for traditional and emergent employment opportunities. (Also offered as EDCA 632. Students may not receive credit for both.) Students in EDCA 632 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

#### **534. Correctional Education Leadership**

Principles of educational administration, educational supervision, and theories and processes of educational management, within correctional education. (Also offered as EDCA 634. Students may not receive credit for both.) Students in EDCA 634 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

#### **536. Pedagogy and Andragogy in Correctional Institutions**

Historic and current differences between the education of children (pedagogy) and of adults (andragogy). Emphases include developmental and transpersonal psychology; rationales and procedures associated with the education of children and adults; the issues of learner motivation, life tasks, and curricular concerns; and the similarities and differences of local school education, correctional and alternative education, and adult education. (Also offered as EDCA 636. Students may not receive credit for both.) Students in EDCA 636 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

#### **538. Organization of Correctional and Alternative Education Service Delivery**

Three current modes of institutional education delivery (decentralized, bureau, correctional school district), the origins of institutional education in moral and religious instruction, and alternative and continuation education as offered by court schools, municipalities, and counties. Includes patterns of organization that were designed to support schooling in settings characterized by resource inadequacy. (Also offered as EDCA 638. Students may not receive credit for both.) Students in EDCA 638 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

#### **540. Literacy in Adult Confinement Institutions**

Concepts of readiness to learn and developmental tasks, family literacy for incarcerates, prevalence of disabling conditions that impact learning, and the establishment of "third space" alphabetic and cultural literacy strategies. Critique of traditional and current curricular approaches and recent research findings. (Also offered as EDCA 640. Students may not receive credit for both.) Students in EDCA 640 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)



**542. Library Services for Alternative and Correctional Students**

Historic alliances between the American Correctional Association and the American Library Association; Carnegie Fund and the Adult Education Association; and state, county, and agency library services. Emphases include traditional reading interests of juvenile and adult students in alternative and institutional school programs, readability assessments, various funding sources for library services, and the shift from print-based to digital/online delivery capabilities. (Also offered as EDCA 642. Students may not receive credit for both.) Students in EDCA 642 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

**544. Pre- and Post-Release Transitions for Correctional Students**

Rationale, program opportunities, and coping skills for the offender employment continuum. Directed to the different tasks confronting students "inside" and "outside" the institution with regard to family life, housing, drug abatement, transportation, community resources, basic domestic requirements and strategies to meet them, and finding and keeping regular employment. (Also offered as EDCA 644. Students may not receive credit for both.) Students in EDCA 644 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

**546. Comparative Correctional Education**

Provision of institutional education in rich and poor nations. Comparison of institutional learning opportunities for students with disabilities in various nations, cultural education, the "normalization" of schooling, and professional networking for institutional educators in selected nations. Various United Nations charges for the development of institutional education, and the European Prison Rules. (Also offered as EDCA 646. Students may not receive credit for both.) Students in EDCA 646 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

**584. Special Topics in Correctional and Alternative Education**

Lives and works of the great institutional educators and prison reformers, including the personalities, life conditions, and general programs of these contributors, their writings, social and professional networks, and alignment with successive correctional education paradigms. (Also offered as EDCA 684. Students may not receive credit for both.) Students in EDCA 684 must complete additional requirements. May be repeated for credit. Prerequisite or corequisite: EDCA 514. (4 units)

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**COURSE OFFERINGS IN  
CURRICULUM AND INSTRUCTION (EDCI)**

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**Upper Division****540. Differentiated Curriculum and Instruction**

Methods of designing curriculum and instruction to accommodate differences and diversity in learners, with an emphasis on utilizing differentiated instructional methodologies to meet the needs of gifted learners in the regular classroom. (4 units)

**543. Creativity, Thinking and Problem Solving**

Emphasis on characteristics, needs and appropriate education of creatively gifted individuals. Strategies for regular classroom applications of creative and critical thinking skills and infusion of problem solving across the curriculum. (4 units)

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**COURSE OFFERINGS IN  
EDUCATIONAL COUNSELING (ECLG)**

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**Lower Division****222. College to Career**

Introduction to personal interests, values and abilities as they impact educational and career exploration. Use of technology to help identify career choices and labor market trends. Techniques of job search as it relates to all college majors. (4 units)

**Upper Division****531. Introduction to Counseling**

Experience-based introduction to counseling and its techniques. This course cannot be counted among the 72 units required in the Master of Science in Counseling and Guidance. Must be taken concurrently with EDUC 607 for students in the M.S. in Counseling and Guidance and the Pupil Personnel Services Credentials. Prerequisite: approval of admission portfolio. (4 units)

**536. Social-Emotional Development of the Gifted and Talented**

Social, emotional and related educational needs of gifted and talented children and youth. (4 units)

**542. Seminar in Educational Counseling**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-4 units)

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**COURSE OFFERINGS IN  
ELEMENTARY/BILINGUAL EDUCATION (EELB)**

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**Lower Division****230. Introduction to Education**

Perspectives on public school teaching for potential elementary teachers. Awareness of the learning/teaching process; the various roles of teachers; the social, historical, and philosophical foundations of education. Preparation for admission to the credential portion of the B.A. in Liberal Studies, Integrated Track. A minimum of 30 hours of observation/participation in public schools grades K-8. (4 units)

**285. Service Learning Experience**

- A. I: Supervised intensive work performed in the classroom. Requires 60 hours of work/study, including weekly classes. Two units must be completed in a K-3 classroom setting and another two units completed in a 4-8 classroom setting taken in either order. Graded A,B,C/no credit. Formerly EELB 275 and 575. (2 units)
- B. II: Continuation of EELB 285A in either a K-3 or 4-8 classroom setting. Formerly EELB 275 and 575. Graded A,B,C/ no credit. Prerequisite: EELB 285A. (2 units)

**Upper Division****301. Growth and Development in Socio-Educational Contexts**

Developmental characteristics of children from birth through adolescence in the areas of physical, cognitive, language, emotional, personal, social and moral development. Interaction between individual development and social and educational contexts as affected by culture, language, gender, sexual orientation, socioeconomic status, or physical/emotional/learning disabilities. Emphasis on creating classrooms which allow equitable access to education for all students. Re-



quires a minimum six-hour field component in an approved setting. Formerly EELB 331. (4 units)

### **310. Educational Psychology: Teaching and Learning in Diverse Classrooms**

Explores the major educational theories of human learning and cognition, reviews research on effective teaching practices, and examines the use of learning theories and research among students of differing gender, ethnicity, language, socioeconomic status, and handicapping conditions. Five hours of observation/participation in a public elementary school classroom are required. This course cannot be taken in place of EELB 317. Corequisite: HD 315. (3 units)

### **311. Mathematics Curriculum and Methods in the Elementary School**

Introductory course in curriculum and instruction for implementing meaning-centered elementary mathematics education in a culturally diverse society and in designing instruction to meet academic needs of English language learners. Course requires three hours lecture and two hours activity including observation and participation in approved setting. Prerequisite: admission to the B.A. in Liberal Studies, Accelerated Track. Corequisite: MATH 301A. (4 units)

### **312. Family, Culture and Schooling**

Basic understanding of the nature of culture, its manifestations, and the dynamics of crosscultural contact. Key issues of group and individual enculturation, acculturation, assimilation, multiculturalism, culture shock, racism, and gender, and their impact on educational practice. Interaction and communication with diverse families and communities. Requires a minimum six-hour field component in an approved setting. Formerly EELB 321. Must be taken in the first quarter of enrollment in the credential program and may be taken concurrently with EELB 313, 315 or 316, 317 and 519. Prerequisite: admission to the Multiple Subject Credential Program. (2 units)

### **313. Pedagogical Foundations for English Language Learners**

Overview of various theories, principles and instructional practices designed to develop the linguistic, social and academic proficiency of English language learners. Key issues and concepts include: linguistic development, first and second language acquisition, and the relationship between first language literacy and second language development. Relevant state and federal laws pertaining to the education of English learners, the impact of these mandates on student placement and school site instructional programs, the importance of students' families, cultural backgrounds and experiences and how these relate to successful school experiences for English learners are examined. Requires a minimum six-hour field component in an approved setting. Formerly EELB 333. May be taken concurrently with EELB 312, 315 or 316, 317 and 519. Prerequisite: admission to the Multiple Subject Credential Program. (4 units)

### **315. Reading/Language Arts Curriculum and Pedagogy**

Research-based materials, methods, and strategies for teaching reading/language arts, including explicit systematic, meaningful instruction in basic reading skills and comprehension strategies to meet the needs of English learners, proficient English learners, and learners with special needs including learners with varied reading levels and language backgrounds. Emphasis is on emergent reading and writing behaviors, balanced literacy components, and literature. Requires a minimum six-hour field component including participation with beginning readers in an approved setting. Formerly EELB 445. May be taken concurrently with EELB 312, 313, 317, and 519. Prerequisite: admission to the Multiple Subject Credential Program. (3 units)

### **316. Reading/Language Arts (Primary Language) Curriculum and Pedagogy**

Materials, methods, and strategies for teaching reading/language arts with a focus on substantive research-based instruction, including explicit systematic, meaningful instruction in basic reading skills and comprehension strategies to meet the needs of English learners, proficient English learners with special needs including learners with varied reading levels and language backgrounds. Emphasis is on emergent reading and writing behaviors, balanced literacy components, and literature. Part of the course is taught in Spanish. Requires a minimum six-hour field component including participation with beginning readers in an approved Multiple Subject BCLAD setting. Formerly EELB 446. May be taken concurrently with EELB 312, 313, 317 and 519. Prerequisite: admission to the Multiple Subject Credential Program. (3 units)

### **317. Educational Psychology for a Diverse Society**

Overview of psychological principles applied to education using a variety of theoretical perspectives from psychology to explore educational practices, student development and characteristics, learning processes, teaching strategies and assessment in the multicultural classroom. Requires a minimum six-hour field component in an approved setting. Formerly EELB 332. May be taken concurrently with EELB 312, 313, 315 or 316 and 519. Prerequisite: admission to the Multiple Subject Credential Program. (4 units)

### **334. Language Development and Schooling**

First and second language acquisition and the applications of this to developing curriculum and instructional practices of English language learners. Historical, legal and educational foundations of bilingual instruction, English language development (ELD) and Specially Designed Academic Instruction in English (SDAIE) as well as enrichment versus deficit models of schooling. Requires five hours of observation and participation in an approved setting. (4 units)

### **335. Reading/Language Arts Curriculum and Methods in the Elementary School**

Emphasis on integration of linguistic concepts with appropriate strategies for teaching emergent readers and writers of varied reading levels and language backgrounds. Strategies include developing phonemic awareness; systemic explicit phonics instruction; selection of appropriate materials and assessment measures; making reading and writing connections; supporting comprehension and vocabulary development; and organizing classrooms for a balanced literacy program. Course requires three hours lecture and two hours activity including observation and participation in approved setting. Prerequisite: admission to the B.A. in Liberal Studies, Accelerated Track. Corequisite: ENG 311. (4 units)

### **342. Curriculum and Methods for Early Childhood Education**

Principles, methods and materials of instruction appropriate for young children. Prerequisites: EELB 301 and 312. (4 units)

### **414. Science Curriculum and Methods in the Elementary School**

Introductory course in curriculum and instruction for implementing meaning-centered elementary science education in a culturally diverse society and in designing instruction to meet academic needs of English language learners. Course requires three hours lecture and two hours activity including observation and participation in approved setting. Prerequisite: admission to the B.A. in Liberal Studies, Accelerated Track. Corequisite: PHYS 304. (4 units)

**422. Classroom Organization, Management and Discipline**

Seminar focusing on knowledge, skills and dispositions required to create and maintain a supportive, healthy environment for student learning. Topics include learning about students, encouraging parental involvement and support, understanding multiple factors that influence behavior, using support personnel, establishing procedures which result in using instructional time effectively, and developing a discipline plan based on research and personal educational philosophy. May be taken concurrently with EELB 423, 425 and 529 and either EELB 540A or 560A. If not taken concurrently with EELB 529 and either EELB 540A or 560A, then six hours of fieldwork will be required. Prerequisites: admission to the Multiple Subject Credential Program and completion of all Phase I courses. (2 units)

**423. Mathematics Curriculum and Pedagogy**

Introductory course in curriculum and instruction in mathematics. Emphasis on implementing state adopted mathematics curriculum standards and skills in an elementary classroom based on an in depth understanding of concepts, skills, and strategies in mathematics. Includes designing instruction to meet the academic needs of all learners in a diverse classroom including English learners and learners with special needs. Formerly EELB 441. May be taken concurrently with EELB 422, 425 and 529 and either EELB 540A or 560A. If not taken concurrently with EELB 529 and either EELB 540A or 560A, then six hours of fieldwork will be required. Prerequisites: admission to the Multiple Subject Credential Program and completion of all Phase I courses. (4 units)

**425. Literacy and Second Language Acquisition for the Intermediate Reader and Beyond**

Continuation of EELB 315 and 316 which extends the study of literacy development for the intermediate reader and beyond for all learners including English learners, proficient English learners, and learners with special needs. Emphasis on developing higher level academic skills for complex reading, writing, speaking, and thinking; approaches to English language development (ELD); planning for both language and content instruction, literacy in the content areas; development of strategies to build comprehension and fluency; assessment techniques; and transfer of literacy skills from first to second language. Formerly EELB 449. May be taken concurrently with EELB 422, 423, 529 and either EELB 540A or 560A. If not taken concurrently with EELB 529 and either EELB 540A or 560A, then six hours of fieldwork will be required. Prerequisites: admission to the Multiple Subject Credential Program and completion of all Phase I courses. (3 units)

**429. Reading, Writing and Literary Analysis in the Elementary School**

Emphasis on approaches to reading and writing in the content areas; analysis of literature; assessment techniques; and strategies for making reading, writing and literature comprehensible to all students including English language learners. Course builds on process writing concepts including drafting, peer editing, and idea development. Course requires three hours lecture and two hours of activity including observation and participation in approved setting. Prerequisites: admission to the B.A. in Liberal Studies, Accelerated Track, ENG 306, and 311. Corequisite: ENG 301, 302, 303, 304, 309 or 320. (4 units)

**430. Supervised Student Teaching in the Blended Program**

Teaching in elementary grades in the public schools. Graded credit/no credit. Prerequisites: admission to the B.A. in Liberal Studies, Accelerated Track and admission to student teaching. Corequisite: HUM 497. (8 units)

**480. Capstone Seminar**

Seminar on issues in curriculum, instruction and assessment; reflection on all previous course work and experiences; and continuing development of the teaching portfolio to accompany second quarter elementary student teaching. Graded credit/no credit. Prerequisites: EELB 540A, 451 and 533 or 534. Corequisites: EELB 540B, 452 and 511. (2 units)

**512. Spanish Children's Literature for the Bilingual Classroom**

Examines children's literature and how it has the potential to be culturally authentic, interesting and effective in literacy instruction. (Also offered as EELB 611. Students may not receive credit for both.) (4 units)

**519. Assessment Seminar I**

Seminar focusing on knowledge, skills and dispositions required of first-year teachers. Emphasis on content specific and developmentally appropriate pedagogy, characteristics of English learners and learners with special needs, and demonstration of Teacher Performance Expectations 1, 3, 4, 6 and 7. Must be the last course taken in Phase I. Graded credit/no credit. Prerequisite: admission to the Multiple Subject Credential program. Prerequisite or corequisite: all courses in Phase I. (2 units)

**529. Assessment Seminar II**

Seminar focusing on knowledge, skills and dispositions required of first year teachers. Emphasis on connecting instructional planning to student characteristics for academic learning; designing instruction in physical education; and demonstration of Teacher Performance Expectations 1, 4, 6, 7, 8, 9, and 13. Graded credit/no credit. Corequisite: EELB 540A for student teachers or EELB 560B for intern teachers. Prerequisites or corequisites: EELB 422, 423, 425 for student teachers or EELB 532 for intern teachers. Prerequisite: admission to the Multiple Subject Credential program and all Phase I courses for student teachers or all courses in Phase I and II for intern teachers. (2 units)

**532. Science/Health Curriculum and Pedagogy**

Introductory course in curriculum and pedagogy in science and health. Emphasis on implementing state adopted science and health curriculum standards in an elementary classroom. Includes designing instruction to meet academic needs of all learners including English language learners and learners with special needs. Formerly EELB 443. Student teachers may take concurrently with EELB 533 or 534, 539 and 540B. Intern teachers may take concurrently with EELB 529 and 560B. If not taken concurrently with EELB 540B or 560B, then six hours of fieldwork will be required. Prerequisites: admission to the Multiple Subject Credential Program and completion of all Phase I and II courses. (4 units)

**533. Social Studies and the Arts Curriculum and Pedagogy**

Introductory course in curriculum and pedagogy in history/social studies and visual/performing arts. Emphasis on implementing state adopted curriculum standards and skills in an elementary classroom based on an in-depth understanding of concepts, skills, and strategies in history/social studies and the visual/performing arts. Includes designing a teaching unit to meet academic needs of all learners including English language learners and learners with special needs. Formerly EELB 447. Student teachers may take concurrently with EELB 532, 539 and 540B. Intern teachers may take concurrently with EELB 539 and 560C. If not taken concurrently with EELB 540B or 560C, then six hours of fieldwork will be required. Prerequisites: admission to the Multiple Subject Credential Program and completion of all Phase I, II and III courses for intern teachers. (4 units)

**534. Social Studies and the Arts (Primary Language) Curriculum and Pedagogy**

Introductory course in curriculum and pedagogy in history/social studies and the visual/performing arts. Emphasis on implementing state adopted curriculum standards and skills in an elementary school based on an in-depth understanding of concepts, skills, and strategies in history/social studies and the visual/performing arts. Includes designing a teaching unit to meet academic and language needs of all learners including Spanish-speaking learners and learners with special needs. Part of the course will be taught in Spanish. Formerly EELB 448. Student teachers may take concurrently with EELB 532, 539 and 540B. Intern teachers may take concurrently with EELB 539 and 560C. If not taken concurrently with EELB 540B or 560C, then six hours of fieldwork will be required. Prerequisites: admission to the Multiple Subject Credential program and completion of all Phase I and II courses for student teachers or completion of all Phase I, II, and III courses for intern teachers. Corequisite: EELB 540B or 560C. (4 units)

**539. Assessment Seminar III**

Seminar focusing on knowledge, skills and dispositions required of first year teachers. Emphasis on assessment of learning goals; lesson design, implementation, and reflection after instruction; professional, legal and ethical obligations; and demonstration of Teacher Performance Expectations 1 through 13. Graded credit/no credit. Corequisite: EELB 540B for student teachers or EELB 560C for intern teachers. Prerequisites or corequisites: EELB 532 and 533 or 534 for student teachers or EELB 533 or 534 for intern teachers. Prerequisites: admission to the Multiple Subject Credential program and Phase I and II for student teachers or Phase I, II and III for intern teachers. (2 units)

**540. Supervised Student Teaching in Multiple Subject**

Teaching practicum in public schools in a multiple subject setting as defined by CCTC. Two quarters of student teaching are required. Graded credit/no credit. Formerly EELB 450.

- A. I. Must be taken concurrently with EELB 529. Should be taken concurrently with EELB 422, 423, and 425. Prerequisite: admission to supervision as a student teacher. (6 units)
- B. II. Must be taken concurrently with EELB 539. Should be taken concurrently with EELB 532 and 533 or 534. Prerequisites: EELB 422, 423, 425, 529 and 540A. (6 units)
- C. III. Prerequisite: consent of program director. (6 units)

**542. Seminar in Elementary/Bilingual Education**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-4 units)

**545. Teaching Science in Elementary School**

Intensive study of teaching science in elementary school. Exploration, analysis, interpretation and implementation of science process teaching. Intended for experienced teachers. Prerequisite: consent of instructor. (4 units)

**560. Supervised Intern Teaching in Multiple Subject**

Full-time teaching in the public schools under the intern credential in a multiple subject setting as defined by CCTC. Three quarters of supervised intern teaching are required. Formerly EELB 455. Graded credit/no credit.

- A. Prerequisites: admission to the intern program, completion of EELB 312, 313, 315 or 316, and 317 and admission to supervision. Corequisites: EELB 422, 423, and 425. (8 units)

- B. Prerequisites: EELB 312, 313, 315 or 316, 317, 422 423, 425, and 560A. Corequisites: EELB 529 and 532. (8 units)
- C. Prerequisites: EELB 533 or 534 and 539. (8 units)

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**COURSE OFFERINGS IN EDUCATION: ENGLISH TO SPEAKERS OF OTHER LANGUAGES (EESL)**


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**Upper Division****521. Computer-Assisted Language Learning**

Survey of theory and practice in teaching English to speakers of other languages by means of computer applications including the internet, CD-ROM and multimedia-based software. Three hours lecture and two hours activity. (4 units)

**536. Crosscultural Teaching**

Methods and teaching techniques for teaching in multicultural and crosscultural settings in both ESL and EFL contexts. Developing cultural awareness of teachers to assist them in relating to and motivating culturally diverse students. May be taught through distance learning. Formerly EELB 536. (4 units)

**544. Reading Methods for TESOL**

Reading methods for English language learners, featuring literacy transfer from the first language, explicit instructions in phonetics, and emergent literacy for adults. (4 units)

**545. Writing Methods in TESOL**

Survey of contemporary approaches to writing, contrasting styles and formats appropriate for creative writing and personal essays with writing intended for purposes of textual analysis and social or cultural expression. Various computer technologies will be used to assist in idea generation, text processing, editing, and desktop publishing. Class will include peer-collaborative tutoring techniques. (4 units)

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**COURSE OFFERINGS IN SECONDARY EDUCATION (ESEC)**


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**Lower Division****200. Introduction to Careers in Secondary Education**

Perspectives on public school teaching for potential secondary teachers (grades 6-12). Early field experience activities including planned observations, instruction and tutoring provide students with the opportunity to link undergraduate subject matter coursework with classroom experience. Enrollment requires a Certificate of Clearance. Includes a minimum of eight hours of field experience in an approved setting. (2 units)

**Upper Division****321. Culture and Schooling**

Basic understanding of the nature of "culture," its manifestations and the dynamics of crosscultural contact. Key issues of group and individual acculturation, assimilation, biculturalism, culture shock, and racism and their impact on educational practice. Includes a ten-hour field component at an approved setting. Meets CCTC early field requirement. (For CLAD Certificate candidates only: EESL 536 may be substituted for this course.) (4 units)

**332. Educational Psychology for a Diverse Society**

Overview of psychological principles applied to educational theory and practice. Course uses humanistic, behavioral, anthropological, and cognitive research to explore educational practices, student characteristics, learning processes, teaching strategies, and classroom



evaluation in the multicultural classroom. Requires a ten-hour field component in an approved setting. Two hours lecture and two hours discussion. (4 units)

### 333. Curriculum and Instruction for a Diverse Society

Overview of the social, theoretical, classroom and policy perspectives used to explain the school performance of English language learners. Includes historical, legal, and educational foundations of bilingual education; first and second language acquisition; structure of language; nonverbal communication; English language development; specially designed academic instruction in English; assessment and placement issues; and an examination of the role of verbal interaction in learning. Requires a ten-hour field component in an approved setting. Prerequisite or corequisite: ESEC 321. (For CLAD Certificate candidates only: EESL 536 may be substituted for ESEC 321.) (4 units)

### 405. Introduction to Secondary School Culture

Examines the importance of students as the center of school culture. Analyzes a broad range of issues and theories that serve as the foundation to the profession of teaching in a diverse society. Prerequisite: admission to the program. (4 units)

### 407. Secondary School Teaching

Comprehensive and balanced view of teaching and all its complexities. Prerequisite: admission to the program. (4 units)

### 410. Adolescent Development and Learning

In-depth understanding of the developmental characteristics of early, middle and late adolescence as applicable to teaching in the secondary school settings and teaching. Prerequisite: admission to the program. (4 units)

### 413. Language Interaction in the Classroom

Examines the philosophy, design, goals and characteristics of school-based organizational structures designed to meet needs of English language learners (ELLs). Prerequisites: admission and good standing in the program or consent of program director. (4 units)

### 417. Educational Psychology: Instructional Theory, Assessment and Classroom Management

Examines psychological principles applied to instructional theory and practice. Develops skills and classroom management for the multicultural, single subject classroom. Prerequisite: knowledge of the Single Subject Program or consent of program director. (4 units)

### 419. Literacy Across the Curriculum

Acquire and demonstrate research-based instruction that provides for teaching effective strategies and methods for guiding and developing the content based reading and writing abilities of all students, including students of varied reading levels and language backgrounds. Prerequisites: admission and good standing in the program or consent of program director. (4 units)

### 421. Secondary Student Teaching

Full-time teaching in the junior or senior high school. Graded credit/no credit.

- A. I. Must be taken concurrently with ESEC 441 or its equivalent, or ESEC 480. Prerequisites: ESEC 332, 440, 445 and admission to student teaching. (8 units)
- B. II. Must be taken concurrently with ESEC 441 or its equivalent or ESEC 480. Prerequisite: satisfactory completion of 421A. (8 units)
- C. III. Prerequisites: satisfactory completion of 421A and 421B and consent of department chair. (8 units)

### 440. Secondary School Curriculum and Instruction I

Introductory course in secondary curriculum and teaching methods with emphasis on instructional planning, strategies and evaluation, technology as applied to teaching, and classroom management. A minimum of ten hours per quarter of classroom observations in an approved setting is required. Prerequisites: ESEC 321, 332, and admission to the program for the Single Subject Credential. (4 units)

### 441. Secondary School Curriculum and Instruction II

Introductory course in secondary curriculum and teaching methods with emphasis on subject area materials, mediated materials, secondary curriculum and legal aspects of teaching as a profession. Prerequisites: consent of department chair and admission to the Single Subject Credential program.

- A. Art. May be taken prior to or concurrently with ESEC 421A. (4 units)
- E. English. Corequisite: ESEC 421A or 421B. (4 units)
- F. Foreign Language. May be taken prior to or concurrently with ESEC 421A. (4 units)
- H. Music. May be taken prior to or concurrently with ESEC 421A. (4 units)
- L. Life and Physical Sciences. (4 units)
- M. Mathematics. Corequisite: ESEC 421A or 421B. (4 units)
- O. Other. Corequisite: ESEC 421A or 421B. (4 units)
- P. Physical Education. May be taken prior to or concurrently with ESEC 421A. (4 units)
- S. Social Sciences. Corequisite: ESEC 421A or 421B. (4 units)

### 443. Adolescent Development and Educational Contexts

Organization of middle school and high school education will be examined. Interaction between adolescent development and community and school contexts will be studied in relation to current research and practice. Includes a ten-hour field component at approved settings. Prerequisites: ESEC 321, 332 and 333. (4 units)

### 445. Teaching Reading and Writing in Secondary School Subjects

Methods of diagnosing and teaching specific reading and writing skills in secondary school subjects. A minimum of 24 hours per quarter of field experiences in an approved setting is required. Prerequisites: ESEC 321, 332, and admission to the Single Subject Credential program. (4 units)

### 480. Student Teaching Seminar

- A. I. Seminar to accompany the first quarter of student teaching. Includes curriculum planning, instruction, student evaluation, and classroom management with assignments related to the student teaching placement. Graded credit/no credit. (2 units)
- B. II. Seminar to accompany the second quarter of student teaching. Culminating experience of the teacher preparation program. Students will prepare a portfolio that documents professional development and provides the means to assess program experiences and future professional growth. Graded credit/no credit. (2 units)

### 502. Special Topics for Undergraduates in Secondary Education

Issues and techniques in selected topics current in secondary education. Designed for the Integrated Teaching Track students. Senior status in the degree program is required. (2 units)



**506. Curriculum and Instruction in Content Areas**

Accessibility of secondary school content to all students from varied populations. Student evaluation, assessment and practice that provides equal access to content areas in the secondary schools. Reviews and reflects on application of methodologies and strategies through micro-teaching. Formerly ESEC 505 and 508. Prerequisites: admission and good standing in the program or consent of program director.

- E. English (4 units)
- F. Foreign Languages (4 units)
- L. Life and Physical Sciences (4 units)
- M. Mathematics (4 units)
- P. Physical Education (4 units)
- S. Social Sciences (4 units)

**510. Teaching English as a Second Language in Secondary Schools**

Offers a broad overview of approaches and methods used in language teaching, but will focus specifically on practices that can support the development of English language proficiencies needed for success in secondary schools. Prerequisites: ESEC 321 and 333. (4 units)

**511. Theory and Practice for English Language Development (ELD)**

Study and practice of the design, implementation, and assessment of a communication-based curriculum for the English language learners in all stages of second language development. Includes selection and use of appropriate ELD strategies and materials. Prerequisites: EELB 312, EESL 536 or ESEC 321; and EELB 313 or ESEC 333. (4 units)

**512. Principles of Pedagogy**

Teacher performance assessment of 1 and 2 which consists of Teacher Performance Expectations 1, 3, 4, 6, 7, 8, 9 and 12. Graded credit/no credit. Prerequisites: admission and good standing in the program or consent of program director. (2 units)

**514. Assessment and Reflection of Instruction**

Teacher performance assessment of 3 and 4 which consists of Teacher Performance Expectations 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 13. Graded credit/no credit. Prerequisites: admission and good standing in the program or consent of program director. (2 units)

**515. Issues and Trends in Secondary Education**

Examination of issues and trends in secondary education. May be repeated with consent of advisor. Prerequisite: consent of advisor. (2 units)

**517. Middle School Curriculum and Instruction**

Examination of middle school curriculum design and instructional practices. (4 units)

**521. Instructional Strategies and Approaches to Middle Grade**

Instructional methods, techniques and evaluation procedures especially appropriate for middle schools. (4 units)

**523. Mainstreaming Exceptional Students in the Secondary Classroom**

Addresses the needs of exceptional students in the mainstreamed secondary school classroom. Current research, practice and legislation will be examined as they apply to the secondary school teacher and students. (2 units)

**542. Seminar in Secondary Education**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-4 units)

**545. Adolescents Literacy Tutoring**

Tutor training for students to work with low literacy and at-risk adolescents in reading. Topics include literacy methods, multicultural issues, learning disabilities and use of educational software. 20 hours lecture and 48 hours of tutoring an adolescent in a field-based setting. Prerequisite: consent of instructor. (4 units)

**550. Student Teaching**

Full-time teaching in a single subject setting at a public school. Graded credit/no credit.

- A. Experience. Student teaching candidates are required to conduct observations and complete fieldwork assignments from the various program courses. In addition, student teaching candidates are required to tutor a designated English Language Learner and a student with special needs. (100 hours). Prerequisite: must be enrolled in a single subject program or consent of program director. (2 units)
- B. Prerequisite: successful completion of ESEC 550A. (4 units)
- C. Prerequisite: successful completion of ESEC 550B. (8 units)

**555. Internship Seminar I**

Seminar for interns, focusing on knowledge, skills and attitudes required for a first year teacher. Graded credit/no credit. (2 units)

**556. Internship Seminar II**

Seminar for Secondary interns, focusing on knowledge, skills and attitudes required of a first year teacher. Graded credit/no credit. (2 units)

**560. Study Skills for Secondary School**

Programs, methods and materials for teaching study skills to exceptional junior and senior high school students. Study strategies include: note taking, organization, memory devices, study contracts and preparation for examinations. (4 units)

**570. Intern Supervision**

Full-time teaching in a single subject setting in a public school. Graded credit/no credit. Formerly ESEC 422.

- A. I. Prerequisite: enrollment in Single Subject Program. (6 units)
- B. II. Prerequisite: satisfactory completion of ESEC 570A and consent of program coordinator. (6 units)
- C. III. Prerequisite: satisfactory completion of ESEC 570B. (6 units)
- D. IV. Prerequisite: satisfactory completion of ESEC 570C. (6 units)
- E. V. Prerequisite: satisfactory completion of ESEC 570D. (6 units)
- F. VI. Prerequisite: satisfactory completion of ESEC 570E. (6 units)

**COURSE OFFERINGS IN****SPECIAL EDUCATION (ESPE)****Upper Division****350. Introduction to Special Populations for General Education Teachers**

Introduction to special populations in the mainstream classroom for general educators. Development of basic skills for teaching special populations in the general education classroom including differentiated instructional strategies within the core curriculum, roles of general education teachers, and creating a positive inclusive climate of instruction for exceptional learners. A minimum of three hours of fieldwork is required. (4 units)

**515. Language and Literacy for Children Under Five With Special Needs**

An intensive study of early literacy and language skills including English as a second language, typical and atypical development, assessment, instruction, and guidelines as it relates to infants, toddlers, and young children who may be at-risk. (4 units)

**523. Mainstreaming Handicapped Individuals in the Elementary Classroom**

Introduction to the adaptation of curriculum, methods and materials necessary for accommodating exceptional individuals in the regular elementary classroom. (2 units)

**529. Introductory Methods for Special Education**

Instruction in positive classroom and behavior management, effective teaching skills, modification of core curriculum, assessment techniques, IEP development, and relationships with other professionals. (4 units)

**530. Psychology and Education of Exceptional Individuals**

Characteristics and educational implications of physical, intellectual, social and emotional deviations among exceptional individuals. Ethical and legal aspects of special education. Observations in educational settings. (4 units)

**532. Introduction to Teaching Individuals with Exceptional Needs**

Learning characteristics of individuals with handicaps related to educational procedures and intervention strategies. Study and observation of education and intervention theory and practices. Prerequisite: ESPE 530 or consent of instructor. (4 units)

**538. Introduction to Teaching the Gifted and Talented**

Definition, characteristics and development of the gifted and talented individual. Identification procedures. Current legislation and educational practices. Eight hours of class and activities weekly. Prerequisite: consent of instructor. (4 units)

**539. Programs for Teaching the Gifted and Talented**

Development of school programs for gifted and talented: identification, objectives, scheduling, curriculum, materials and program assessment. Prerequisites: ESPE 538 and consent of instructor. (4 units)

**540. Strategies for Remedial Teaching**

Methods of diagnosing needs, teaching basic subjects; organizing curriculum, and controlling behavior of low achieving students in the regular elementary classroom. (4 units)

**542. Seminar in Special Education**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-4 units)

**545. Computer Technology and Assistive Devices**

Training and appropriate use of computers, technological, and assistive devices that facilitate communication as well as cognitive and physical access for persons with disabilities in educational and work environments. Formerly a topic under ESPE 542. Graded A,B,C/no credit. Prerequisite: consent of instructor. (4 units)

**570. Teaching Students with Disabilities in the General Education Classroom**

Advanced study of special populations in the mainstream classroom for general educators. Teachers will display knowledge, skills and strategies for teaching students with disabilities in the general education classroom. Demonstrates the ability to create a positive inclusive climate for individualized assessment and instruction for students with special needs and/or abilities utilizing grade appropriate State adopted standards, collaborative professional relationships, and an understanding of local and federal acts regarding special education. Observations in educational settings are required. Course may be offered on-line. (4 units)

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**COURSE OFFERINGS IN  
INSTRUCTIONAL TECHNOLOGY (ETEC)**

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**Upper Division****500. Foundations in Instructional Technology**

Introduction to instructional technology and its foundations. Includes electronic media, operating systems, networks and multimedia in educational and corporate environments. This is a prerequisite for all other ETEC courses; an IT orientation with program faculty/advisors will be part of the first week of the course. Formerly ETEC 547. (4 units)

**537. Computer Based Technology in Education I**

Operations, terminology and components of computing systems. Emphasis on the appropriate use of computer-based technology for information collection, analysis and management in the instructional setting. No programming or previous computer experience required. May not be taken for credit by students who have received credit for CSCI 127. One hour lecture and two hours laboratory. Meets Level I competencies for the preliminary credential. (2 units)

**542. Seminar in Instructional Technology**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Graded credit/no credit. Prerequisite: graduate standing or consent of instructor. (1-4 units)

**543. Technology and Learning I**

Explores connections between technology and the teaching and learning process through current research in instructional technology and learning theories. Prerequisite: ETEC 500. (4 units)

**544. Design and Development of Instructional Materials I**

Examination of various models of instructional design and procedures used in the production of instructional materials. Prerequisite: ETEC 500. (4 units)

**546. Computer Based Technology in Education II**

Application of computer-based technology for information collection, analysis and management to support teaching, learning and learning environments. Meets technology competencies for the professional credential. Three hours lecture and two hours laboratory. (4 units)

# ENGLISH

## Department of English

University Hall, Room 334  
(909) 537-5824 <http://english.csusb.edu>

### Bachelor of Arts

- English
- Literature Track
- Creative Writing Track
- Linguistics Track

### Teacher Preparation Program

- English

### Minor

- English
- Film Studies (See Page 182)
- Script Writing

### Master of Arts

- English Composition
  - English Composition
  - English Literature
  - Teaching English as a Second Language
- (Degree requirements can be found on Page 446.)

### Certificate Programs

- Writing: Creative Writing
- Writing: Professional Writing

**FACULTY:** Jennifer Andersen, Mary Boland, James Brown, David Carlson, Rong Chen (Chair), Milton Clark, Kimberly Costino, Cynthia Cotter, Juan Delgado, Margaret Doane, Parastou Feiz, Brenda Glascott, Ellen Gil-Gomez, Bruce Golden (Emeritus), Carol Haviland, Holly Henry, Sunny Hyon, Sandra Kamusikiri, David Marshall, Susan Meisenholder (Emeritus), Kevin Moffatt, Julie Paegle, E. Philip Page (Emeritus), Renee Pigeon, Helen Pilinovsky, Luz Elena Ramirez, Jacqueline Rhodes, Treadwell (Ted) Ruml II, DeShea Rushing, Joe Sanders, Peter Schroeder (Emeritus), Wendy Smith, Caroline Vickers, Salaam Yousif

Like English departments in most colleges and universities, the English Department at California State University, San Bernardino is devoted to the study of literature and language. The major in English consists of a common core and three tracks. The core provides background for more advanced courses, with offerings in English literature, American literature, noncanonical literature, as well as analysis of particular genres, literary theory, and introduction to linguistics.

The Literature Track offers courses focused on particular themes, genres, authors, topics, and periods. The Creative Writing Track gives students the opportunity to do extensive, sequenced work in poetry or fiction writing and exposes them to the writing of other genres. The Linguistic Track enables students to understand human language in its many facets: its history, its structure, its variation, its relationship with society and culture, and how it is acquired by children and adults.

The English Department also sponsors The Pacific Review, a literary journal mingling professional and student contributions. Work on this journal provides excellent training for students in editorial work.

As language and culture are understood best in a global context, the English Department encourages students to participate in the California State University's International Programs. For further information, see Page 20.

## B.A. IN ENGLISH

### Requirements (73 units)

#### Total units required for graduation: 180

#### Requirements for the B.A. in English:

To be recommended for a single subject teaching credential program in English, students must include the courses under the English Teacher Preparation Program requirements on Page 170.

Lower-division requirements: (8 units)

1. Four units chosen from:
  - ENG 210. English Literature I (4)
  - ENG 211. English Literature II (4)
2. Four units chosen from:
  - ENG 212. English Literature III (4)
  - ENG 213. English Literature IV (4)

Upper-division requirements (29 units)

1. Four units chosen from:
  - ENG 301A. Analysis of Poetry (4)
  - ENG 301B. Analysis and Writing of Poetry (4)

**Note:** Students who are seeking to be recommended for a single subject teaching credential program in English must take ENG 301B.
2. Four units chosen from:
  - ENG 302A. Analysis of Drama (4)
  - ENG 302B. Analysis and Writing of Drama (4)
  - ENG 303A. Analysis of Prose Fiction (4)
  - ENG 303B. Analysis and Writing of Prose Fiction (4)
  - ENG 304A. Analysis of Nonfiction Prose (4)
  - ENG 304B. Analysis and Writing of Nonfiction Prose (4)

**Note:** Students who are seeking to be recommended for a single subject teaching credential program in English must take four units from ENG 302B, 303B, 304B.
3. ENG 311. The English Language (4)
4. Four units chosen from:
  - ENG 325. American Literature I (4)
  - ENG 326. American Literature II (4)
5. Four units chosen from:
  - ENG 314. American Indian Literature (4)
  - ENG 319. Studies in Literary Diversity (4)
  - ENG 323. Chicano Literature (4)
  - ENG 336. Women Writers (4)
  - ENG 339. African American Literature (4)
6. ENG 385. Literary Theory and Criticism (4)
 

**Note:** Students in the Creative Writing or Linguistics Track who are NOT seeking to be recommended for the single subject teaching credential program in English may substitute another upper-division English course for ENG 385.
7. Four units chosen from:
  - ENG 475. Shakespeare I (4)
  - ENG 476. Shakespeare II (4)
8. ENG 516. Senior Project (1)

Track requirements (36 units)

1. Students must take thirty-six units chosen from one of the following tracks:

#### Literature Track

**Note:** Of the five courses taken in categories 1 and 2 below, at least one must be designated British-centered, at least one must be designated American-centered, and at least one must be designated pre-1800. Students should consult an English advisor for a list of courses with these designations.

1. Sixteen units from any of the following courses, at least 12 units of which must be from 400-level courses.

**Studies in a Literary Topic**

- ENG 324. Studies in Literary Topics (4)  
ENG 463. Advanced Studies in Literary Topics (4)

**Studies in a Literary Genre**

- ENG 315. Studies in a Literary Genre (4)  
ENG 333. Myth and Epic (4)  
ENG 335. Studies in the Novel (4)

**Studies in a Literary Period or Movement**

- ENG 401. English Literature of the Middle Ages (4)  
ENG 403. English Literature of the Renaissance (4)  
ENG 406. Seventeenth Century Literature (4)  
ENG 409. English Literature of the Restoration and Eighteenth Century (4)  
  
ENG 412. Romantic Prose and Poetry (4)  
ENG 415. Victorian Literature (4)  
ENG 440. Studies in a Literary Period or Movement (4)  
ENG 442. Modern Poetry (4)  
ENG 443. Contemporary Poetry (4)  
ENG 447. Modern Fiction (4)  
ENG 448. Contemporary Fiction (4)

**Studies in a Major Author or Authors**

- ENG 441. Studies in a Major Author or Authors (4)

**Studies in a Literary Theme**

- ENG 423. Studies in a Literary Theme (4)  
ENG 515. Senior Seminar in Literature (4)  
3. Sixteen units of electives in English. At least eight of these units must be upper-division and may include up to eight units of upper-division foreign literature or upper-division literature in translation. The only lower-division courses that may be used as electives are ENG 210, 211, 212 and 213, as long as these courses have not been used to satisfy other requirements in the English major. Students seeking to be recommended for a single subject teaching credential program in English can use their elective units to take some of the required English coursework specified under category 1 in the English Teacher Preparation Program below.

**Creative Writing Track**

1. ENG 317. Introduction to Creative Writing: Poetry (4)
2. ENG 318. Introduction to Creative Writing: Fiction (4)
3. Four units chosen from:  
ENG 417. Intermediate Creative Writing: Poetry (4)  
ENG 418. Intermediate Creative Writing: Fiction (4)
4. Four units chosen from:  
ENG 507. Advanced Creative Writing: Poetry (4)  
ENG 508. Advanced Creative Writing: Fiction (4)
5. Four units chosen from:  
ENG 316. Introduction to Creative Writing: Specialized Genres (4)  
ENG 347. Playwriting (4)  
ENG 511. Creative Writing in the Classroom (4)  
ENG 513. Advanced Creative Writing in Specialized Genres (4)  
ENG 522. Independent Study in Writing (4)  
TA 347. Playwriting (4)  
Any of ENG 417, 418, 507 or 508 that is not used to satisfy one of the foregoing requirements.
6. Sixteen units of electives in English. At least eight of these units must be upper-division and may include up to eight units of upper-division foreign literature or upper-division literature in translation. The only lower-division elective courses that may be used as electives are ENG 210, 211, 212 and 213, as long as these courses have not been used to satisfy other requirements in the English major. Students seeking to be recommended for

a single subject teaching credential program in English can use their elective units to take some of the required English coursework specified under category 1 in the English Teacher Preparation Program below.

**Linguistics Track**

1. ENG 312. Theories of Language Acquisition and Learning (4)
2. ENG 420. English Grammar I (4)
3. ENG 422. History of the English Language (4)
4. ENG 523. English Grammar II (4)
5. ENG 524. Sociolinguistics (4)
6. Sixteen units of electives in English. At least eight of these units must be upper-division and may include up to eight units of upper-division foreign literature or upper-division literature in translation. The only lower-division elective courses that may be used as electives are ENG 210, 211, 212 and 213, as long as these courses have not been used to satisfy other requirements in the English major. Students seeking to be recommended for a single subject teaching credential program in English can use their elective units to take some of the required English coursework specified under category 1 in the English Teacher Preparation Program below.

It is strongly recommended that students majoring in English take ENG 306 to satisfy the upper-division writing requirement of the university; however, ENG 306 is not applicable toward the English major.

Students planning to do graduate work in English literature are strongly advised to acquire a reading knowledge of at least one foreign language.

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**ENGLISH TEACHER PREPARATION PROGRAM**

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In order to be recommended for a teaching credential (English Subject Matter Program), students must complete the requirements for the English major as well as the following requirements:

1. Students must take the following:  
ENG 240. Writing in the Public Sphere (4)  
ENG 312. Theories of Language Acquisition and Learning (4)  
ENG 327. Literature for Adolescents and Young Adults (4)  
ENG 329. Issues in Literacy and Writing Studies (4)  
ENG 420. English Grammar I (4)  
ENG 510. English in the Secondary Classroom (4)  
**Note:** Students can apply these courses toward the elective units in their track.
2. Students must take ENG 306 or HUM 306 to satisfy the upper-division writing requirement of the university.
3. Students must include the following among their General Education Requirements:
  - a. Four units chosen from:  
ENG 110. World Literature I (4)  
ENG 111. World Literature II (4)
  - b. TA 260. Introduction to Theatre (4)

Students must demonstrate subject matter competence as assessed by the Department of English. For information about the professional education component, prerequisites for and admission to the teacher education program, or specific requirements of the single subject teaching credential program, see Page 157 or contact the Credentials Office, CE-102. For subject matter programs in English with concentrations in Communication or Theatre Arts, see listings under the Communication Studies or Theatre Arts Departments, respectively.



**MINOR IN ENGLISH****Requirements (32 units)****Requirements for a minor in English:**

- ENG 311. The English Language (4)
- Four units chosen from:
  - ENG 301A. Analysis of Poetry (4)
  - ENG 301B. Analysis and Writing of Poetry (4)
  - ENG 302A. Analysis of Drama (4)
  - ENG 302B. Analysis and Writing of Drama (4)
  - ENG 303A. Analysis of Prose Fiction (4)
  - ENG 303B. Analysis and Writing of Prose Fiction (4)
  - ENG 304A. Analysis of Nonfiction Prose (4)
  - ENG 304B. Analysis and Writing of Nonfiction Prose (4)
- Eight units chosen from:
  - ENG 210. English Literature I (4)
  - ENG 211. English Literature II (4)
  - ENG 212. English Literature III (4)
  - ENG 213. English Literature IV (4)
  - ENG 325. American Literature I (4)
  - ENG 326. American Literature II (4)
- Four units chosen from:
  - ENG 475. Shakespeare I (4)
  - ENG 476. Shakespeare II (4)
- Four units chosen from:
  - ENG 401. English Literature of the Middle Ages (4)
  - ENG 403. English Literature of the Renaissance (4)
  - ENG 406. Seventeenth Century Literature (4)
  - ENG 409. English Literature of the Restoration and Eighteenth Century (4)
  - ENG 412. Romantic Prose and Poetry (4)
  - ENG 415. Victorian Literature (4)
  - ENG 442. Modern Poetry (4)
  - ENG 443. Contemporary Poetry (4)
  - ENG 447. Modern Fiction (4)
  - ENG 448. Contemporary Fiction (4)
- Four units chosen from:
  - ENG 314. American Indian Literature (4)
  - ENG 319. Studies in Literary Diversity (4)
  - ENG 323. Chicano Literature (4)
  - ENG 336. Women Writers (4)
  - ENG 339. African American Literature (4)
- Four additional units chosen from any upper-division English course except:
  - ENG 300. English Workshop (4)
  - ENG 306. Expository Writing (4)
  - ENG 399. Community Service Project (4)

**MINOR IN FILM STUDIES****Minor in Film Studies**

The Department of English participates in the interdisciplinary minor in Film Studies. Details concerning this minor are found on Page 125.

**MINOR IN SCRIPT WRITING****Requirements (28 units)****Requirements for a minor in Script Writing:**

Lower-division requirement (4 units)

- Four units chosen from:
  - HUM 180. The Art of Film (4)
  - TA 260. Introduction to Theatre (4)

Upper-division requirements (24 units)

- COMM 347. Fundamentals of Screenwriting (4)
  - Four units chosen from:
    - ENG 302B. Analysis and Writing of Drama (4)
    - TA 302B. Analysis and Writing of Drama (4)
  - TA 347. Playwriting (4)
  - Four units chosen from:
    - ENG 316. Introduction to Creative Writing: Specialized Genres (4)
    - ENG 317. Introduction to Creative Writing: Poetry (4)
    - ENG 318. Introduction to Creative Writing: Fiction (4)
  - ENG 513. Advanced Creative Writing: Specialized Genres (4)
  - Four units chosen from:
    - COMM 343. Nonfiction Reporting and Writing (4)
    - COMM 380. Visual Communication (4)
    - COMM 381. Development of Motion Pictures (4)
    - ENG 315. Studies in a Literary Genre (4)
    - ENG 463. Advanced Studies in Literary Topics (4)
    - TA 465. Ethnic Film and Filmmakers (4)
- Note:** Students are able to receive credit for summer arts courses pertaining to the minor.

**DEPARTMENTAL HONORS**

Students majoring in English are eligible to receive honors in English at graduation if they have:

- Completed at least one-half of the course work required in the major at this university;
- Earned a grade point average of at least 3.5 in all courses attempted in the major at this university;
- Earned an overall undergraduate grade point average of at least 3.0;
- Successfully completed ENG 517. Honors Project.

**CERTIFICATE PROGRAMS**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. See Page 58 for additional certificate information.

**Certificate in Writing: Creative Writing****Certificate Requirements (28 units)**

- ENG 317. Introduction to Creative Writing: Poetry (4)
- ENG 318. Introduction to Creative Writing: Fiction (4)
- Four units chosen from:
  - ENG 417. Intermediate Creative Writing: Poetry (4)
  - ENG 418. Intermediate Creative Writing: Fiction (4)
- Four units chosen from:
  - ENG 507. Advanced Creative Writing: Poetry (4)
  - ENG 508. Advanced Creative Writing: Fiction (4)
  - ENG 513. Advanced Creative Writing in Specialized Genres (4)
- Four units chosen from:
  - ENG 301A. Analysis of Poetry (4)
  - ENG 301B. Analysis and Writing of Poetry (4)
  - ENG 302A. Analysis of Drama (4)
  - ENG 302B. Analysis and Writing of Drama (4)

- ENG 303A. Analysis of Prose Fiction (4)
- ENG 303B. Analysis and Writing of Prose Fiction (4)
- ENG 304A. Analysis of Nonfiction Prose (4)
- ENG 304B. Analysis and Writing of Nonfiction Prose (4)
- 6. Eight units from any upper-division English courses which may include ENG 621.

### Certificate in Writing: Professional Writing

#### Certificate Requirements (31 units)

##### Lower-division requirements (7 units)

- 1. COMM 240. Writing for Media (4)
- 2. COMM 243A. Communication Practicum: Journalism and Photojournalism (3)

##### Upper-division requirements (24 units)

- 1. ENG 306. Expository Writing (4)
- 2. ENG 311. The English Language (4)
- 3. Eight units chosen from:
  - COMM 342. Publication Design and Makeup (4)
  - COMM 442. Public Relations Campaigns (4)
  - ENG 631. Approaches to Professional Writing (4)
- 4. Eight units chosen from Group A or B below:
  - Group A**
    - 1. Four units chosen from:
      - ENG 420. English Grammar I (4)
      - ENG 422. History of the English Language (4)
      - PHIL 387. Philosophy of Language (4)
    - 2. Four units chosen from:
      - COMM 311. Business and Professional Communication (4)
      - COMM 342. Publication Design and Makeup (if not taken as a required course) (4)
      - ENG 522. Independent Study in Writing (4)
      - ENG 565. Special Studies in Writing (with appropriate subject) (2)
      - ENG 566. Special Studies in Writing (with appropriate subject) (4)
      - ENG 631. Approaches to Professional Writing (if not taken as a required course) (4)
  - Group B**
    - 1. Eight units chosen from:
      - COMM 311. Business and Professional Communication (4)
      - COMM 342. Newspaper Editing and Makeup (if not taken as a required course) (4)
      - ENG 522. Independent Study in Writing (4)
      - ENG 565. Special Studies in Writing (with appropriate subject) (2)
      - ENG 566. Special Studies in Writing (with appropriate subject) (4)
      - ENG 631. Approaches to Professional Writing (if not taken as a required course) (4)

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## COURSE OFFERINGS IN ENGLISH (ENG)

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### 85. Introductory Composition

A two-quarter course (ENG 85A and 85B) designed to prepare students for ENG 101. Placement in ENG 85A is based on students' scores on the English Placement Test. A grade of CR ("credit") in ENG 85A results in placement in ENG 85B and a grade of NC (no credit) results in placement in ENG 85A; a grade of CR in ENG 85B

results in placement in ENG 101 and a grade of NC results in placement of ENG 95. ENG 85 does not apply toward baccalaureate credit. Graded credit/no credit

- A. First Quarter (4 units)
- B. Second Quarter (4 units)

### 86. Introductory Composition for Multilingual Students

A two-quarter course (ENG 86A and 86B) designed to prepare students for ENG 101. Placement in ENG 86A is based on students' scores on the English Placement Test and self-identification as a speaker of a native or home language other than English. Particular attention is paid to the writing challenges these students face. A grade of CR ("credit") in ENG 86A results in placement in ENG 86B and a grade of NC (no credit) results in placement in ENG 86A; a grade of CR in ENG 85B results in placement in ENG 101 and a grade of NC results in placement of ENG 95. ENG 86 does not apply toward baccalaureate credit. Graded credit/no credit.

- A. First Quarter (4 units)
- B. Second Quarter (4 units)

### 95. Intensive Composition

A one-quarter course designed to prepare students for ENG 101. Placement in ENG 95 is based on students' scores on the English Placement Test or on completion of ENG 85B or 86B with a grade of NC (no credit). A grade of CR (credit) in ENG 95 results in placement in ENG 101. ENG 95 does not apply toward baccalaureate credit. Graded credit/no credit. (4 units)

## Lower Division

### 101. Freshman Composition

Using the processes of writing and critical reading not only to communicate but also to generate thinking and to examine assumptions. Frequent writing required. Graded A, B, C/no credit. Prerequisite: essay score of seven or greater and total score of 151 or greater on the English Placement Test, completion of the test and a grade of "C" or better in ENG 95, or completion of the test and a grade of "CR" in ENG 85A or 85B. (GE=A1) (ENG 101=CAN ENGL 2) (4 units)

### 110. World Literature I

Readings in world literature to the sixteenth century (in English translation). Prerequisite: ENG 101 or equivalent. (GE=C2) (4 units)

### 111. World Literature II

Readings in world literature from the sixteenth century to the contemporary period (in English translation). Prerequisite: ENG 101 or equivalent. (GE=C2) (4 units)

### 140. Major American Authors

Readings in major figures in American literature from the Puritans to the present. (4 units)

### 160. World Drama

Selected readings of dramatic literature (in translation) from the fifth century B.C. to the present. (Also offered as TA 160. Students may not receive credit for both.) Prerequisite: ENG 101 or equivalent. (GE=C2) (4 units)

### 170. Studies in Literature

Analysis of the forms and content of literature. Emphasis is on the methodology of reading prose fiction, drama and poetry. Prerequisite: ENG 101 or equivalent. (GE=C2) (4 units)

### 210. English Literature I

Readings in English literature from the Middle Ages through the Renaissance. Formerly ENG 230. Prerequisite: ENG 101 or equivalent. (ENG 210+211+212=CAN ENGL SEQ B) (4 units)

**211. English Literature II**

Readings in English literature from the Restoration through the eighteenth century. Formerly ENG 231. Prerequisite: English 101 or equivalent. (ENG 210+211+212=**CAN** ENGL SEQ B) (4 units)

**212. English Literature III**

Readings in nineteenth-century English literature. Formerly ENG 232. Prerequisite: ENG 101. (ENG 210+211+212=**CAN** ENGL SEQ B) (4 units)

**213. English Literature IV**

Readings in English literature from the twentieth century to the present. Formerly ENG 232. Prerequisite: ENG 101. (4 units)

**240. Writing in the Public Sphere**

Consideration of how writers use texts (including visual, digital, and print media) to represent public issues and effect public action. Emphasizes the social and material aspects of public writing and public rhetorics, and includes practice in writing for the public sphere. Prerequisite: ENG 101. (4 units)

**Upper Division****300. English Workshop**

An intermediate-level refresher course in writing designed to prepare students for advanced work in composition. Concentration on specific techniques. May not be counted toward fulfilling requirements in the English major and does not fulfill the upper-division writing requirement. Not open to students who have already completed EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306 or SSCI 306. Graded A, B, C/no credit. Prerequisite: ENG 101. (4 units)

*Students are strongly advised to take one or more of the analysis or analysis and writing courses (ENG 301, 302, 303, 304) before taking other upper-division courses.*

**301. Analysis of Poetry**

Credit allowed for only one of the following:

- A. Analysis. Literary analysis of selected lyric poems with special emphasis on how to write about literature. Formerly ENG 301. Prerequisite: ENG 101. (4 units)
- B. Analysis and Writing. Literary analysis of selected lyric poems with special emphasis on how to write about literature, as well as practice in writing poetry. Students seeking recommendation for a teaching credential (English subject matter program) must take ENG 301B. Prerequisite: ENG 101. (4 units)

**302. Analysis of Drama**

Credit allowed for only one of the following:

- A. Analysis. Literary analysis of selected plays with special emphasis on how to write about dramatic literature. Formerly ENG 302. (Also offered as TA 302A. Students may not receive credit for both.) Prerequisite: ENG 101. (4 units)
- B. Analysis and Writing. Literary analysis of selected plays with special emphasis on how to write about dramatic literature, as well as integrated practice in writing for performance. (Also offered as TA 302B. Students may not receive credit for both.) Students seeking recommendation for a teaching credential (English subject matter program) must take ENG 302B. Prerequisite: ENG 101. (4 units)

**303. Analysis of Prose Fiction**

Credit allowed for only one of the following:

- A. Analysis. Literary analysis of selected narrative prose with special emphasis on how to write about literature. Formerly ENG 303. Prerequisite: ENG 101. (4 units)

- B. Analysis and Writing. Literary analysis of selected narrative prose with special emphasis on how to write about literature, as well as practice in writing fiction. Students seeking recommendation for a teaching credential (English subject matter program) must take ENG 303B. Prerequisite: ENG 101. (4 units)

**304. Analysis of Nonfiction Prose**

Credit allowed for only one of the following:

- A. Analysis. Literary analysis of selected nonfiction prose with special emphasis on how to write about literature. Formerly ENG 304. Prerequisite: ENG 101. (4 units)
- B. Analysis and Writing. Literary analysis of selected nonfiction prose with special emphasis on how to write about literature as well as practice in writing nonfiction. Students seeking recommendation for a teaching credential (English subject matter program) must take ENG 304B. Prerequisite: ENG 101. (4 units)

**306. Expository Writing**

Advanced expository writing including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. No more than one of the Expository Writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or a designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly ENG 495. Graded A, B, C/no credit. Prerequisites: ENG 101 and a minimum of 90 quarter (60 semester) units of college credit. (**GE**=F1) (4 units)

**309. Literature in the Classroom**

Approaches to sundry literary genres or themes with an emphasis on adapting them to the elementary classroom. May be repeated for credit as topics change. (4 units)

**311. The English Language**

Introduction to the structure and development of the English language, including phonetics, phonology, morphology, syntax, pragmatics, sociolinguistics, psycholinguistics, and language acquisition. (4 units)

**312. Theories of Language Acquisition and Learning**

Examination of linguistic, psychological and social aspects of language acquisition and learning. Explores connections between first and second language acquisition theories and language teaching. Prerequisite: ENG 311. (4 units)

**314. American Indian Literature**

A consideration of the oral traditions and significant literary works of a variety of American Indian cultures in their changing cultural contexts. (**GE**=G2) (4 units)

**315. Studies in a Literary Genre**

Intensive study of a selected genre. May be repeated for credit as topics change. Prerequisites: ENG 301A or 301B; and one course from ENG 302A, 302B, 303A, 303B, 304A, 304B, or consent of instructor. (4 units)

**316. Introduction to Creative Writing: Specialized Genres**

Workshop in writing in a specialized genre, with discussion of student writing and of exemplary works by established writers. May be repeated for credit as topics change. (4 units)

**317. Introduction to Creative Writing: Poetry**

Workshop in writing poetry, discussion of student writing and exemplary works by established poets. Prerequisite: ENG 101 or consent of instructor. (4 units)

**318. Introduction to Creative Writing: Fiction**

Workshop in writing fiction, discussion of student writing and exemplary works by established authors. Prerequisite: ENG 101 or consent of instructor. (4 units)

**319. Studies in Literary Diversity**

Intensive study of literature which reflects diversity, especially of race, gender, sexual orientation, class or culture. May be repeated for credit as topics change. May be taken for credit by students who have received credit for ENG 322; credit may not be received twice for the same topic. (4 units)

**320. Children's Literature**

History and development of children's literature; emphasis on developing skills in analyzing, evaluating and selecting books for children from preschool through junior high school, especially picture books. Prerequisite: one course from ENG 302A, 302B, 303A, 303B, 304A, 304B. (4 units)

**321. Studies in Language and Linguistics**

Intensive study in selected topics in linguistics or language. May be repeated for credit as topics change. (4 units)

**322. Studies in Literary Themes, Genres, or Authors**

Intensive study of selected themes, genres, or authors. May be repeated for credit as topics change. (4 units)

**323. Chicano Literature**

Selected literature by and about Mexican Americans. Emphasis on the uniqueness of the voices that collectively define Chicano literature and on that literature's formal and thematic characteristics. (4 units)

**324. Studies in Literary Topics**

Study of a selected topic in literature. May be repeated for credit as topics change. Prerequisites: ENG 301A or 301B; and one course from ENG 302A, 302B, 303A, 303B, 304A, 304B. (4 units)

**325. American Literature I**

Readings in American literature from the Colonial period through the Civil War. Formerly ENG 330 and 331. (4 units)

**326. American Literature II**

Readings in American literature from the Civil War to the present. Formerly ENG 332. (4 units)

**327. Literature for Adolescents and Young Adults**

History and analysis of literature aimed at the adolescent and young adult audience. Emphasis on literary and cultural values by exploration of the themes and genres appropriate for junior and senior high school readers. Prerequisite: one course from ENG 301A, 301B, 302A, 302B, 303A, 303B, 304A, 304B. (4 units)

**329. Issues in Literacy and Writing Studies**

Examination of literacy as a historically and socially mediated set of values and practices, with specific consideration of how literacy functions in specific communities. Introduces students to related theories of writing and language use. (4 units)

**333. Myth and Epic**

Myths and epics of folklore and of classical literature, emphasizing relationships to later Western literature. Prerequisites: ENG 301A or 301B; and one course from ENG 302A, 302B, 303A, 303B, 304A, 304B. (4 units)

**335. Studies in the Novel**

Studies in the novel with emphasis on close reading of specific texts. Prerequisites: ENG 301A or 301B; and one course from ENG 302A, 302B, 303A, 303B, 304A, 304B. (4 units)

**336. Women Writers**

Literary analysis of selected works by women writers, with special emphasis on historical and contemporary issues in women's lives. (Also offered as WSTD 336. Students may not receive credit for both.) (4 units)

**339. African American Literature**

Readings in African American literature from the oral tradition to the present, with emphasis on literary, historical and cultural contexts. (4 units)

**347. Playwriting**

Fundamentals of play development, including plot, character, structure, and theme. Classroom exercises will culminate in students creating their own dramatic scenes and short plays. (Also offered as TA 347. Students may not receive credit for both.) Prerequisite: one course from ENG 302A, 302B, TA 302A, 302B; or consent of instructor. (4 units)

**385. Literary Theory and Criticism**

The major issues in literary theory and criticism. (4 units)

**399. Community Service Project**

Credit for applying previously learned skills in the area of English to academically related tasks in such agencies as governmental, social services and educational institutions. May be repeated for a total of two units. May not be counted toward fulfilling requirements in the English major or minor. Graded credit/no credit. Prerequisite: departmental approval of a written application submitted in advance of the quarter in which the course is to be taken. (1-2 units)

**401. English Literature of the Middle Ages**

Lyric, drama, prose and verse narrative from the beginnings of English literature through Malory. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

**403. English Literature of the Renaissance**

Poetry, prose and drama of the sixteenth century. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

**406. Seventeenth Century Literature**

English prose and poetry from Bacon through Milton. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)



**409. English Literature of the Restoration and Eighteenth Century**

English poetry and prose of the Restoration and eighteenth century. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

**412. Romantic Prose and Poetry**

Major English romantics such as Blake, Wordsworth, Keats, Coleridge, Shelley and Byron. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level courses in the English major; or consent of instructor. (4 units)

**415. Victorian Literature**

Major writers of Victorian England. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

**417. Intermediate Creative Writing: Poetry**

Intermediate-level workshop in poetry writing; discussion of student writing and exemplary texts by established poets. Prerequisite: ENG 317 or consent of instructor. (4 units)

**418. Intermediate Creative Writing: Fiction**

Intermediate-level workshop in fiction writing; discussion of student writing and exemplary texts by established fiction writers. Prerequisite: ENG 318 or consent of instructor. (4 units)

**420. English Grammar I**

Study and analysis of grammatical structures of English. Prerequisite: ENG 311. (4 units)

**422. History of the English Language**

Development of the English language from the beginning to the present. Prerequisite: ENG 311. (4 units)

**423. Studies in a Literary Theme**

Intensive study of a selected theme. May be repeated for credit as topics change. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major. (4 units)

**440. Studies in a Literary Period or Movement**

Intensive study of literature within historical and/or cultural contexts. May be repeated for credit as topics change. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

**441. Studies in a Major Author or Authors**

Intensive study of a selected author or authors. May be repeated for credit as topics change. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major. (4 units)

**442. Modern Poetry**

Studies in British, American and European poetry from the late nineteenth century to World War II. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

**443. Contemporary Poetry**

Studies in British and American poetry from World War II to the present. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300- and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

**447. Modern Fiction**

Fiction from 1900 through World War II. Formerly ENG 446. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

**448. Contemporary Fiction**

Fiction from World War II to the present. Formerly ENG 446. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

**450. Classical Drama**

Development of comedy and tragedy in Greece and Rome. (Also offered as TA 450. Students may not receive credit for both.) (4 units)

**455. Modern Drama I**

European, English and American realism. (Also offered as TA 455. Students may not receive credit for both.) (4 units)

**456. Modern Drama II**

European, English and American anti-realism. (Also offered as TA 456. Students may not receive credit for both.) (4 units)

**463. Advanced Studies in Literary Topics**

Advanced study of a topic in literature. May be repeated for credit as topics change. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major, or consent of instructor. (4 units)

**475. Shakespeare I**

Comedies and histories. (Also offered as TA 475. Students may not receive credit for both.) Prerequisite: one course from ENG 301A, 301B, 302A, 302B; or consent of instructor. (4 units)

**476. Shakespeare II**

Tragedies and romances. (Also offered as TA 476. Students may not receive credit for both.) Prerequisite: one course from ENG 301A, 301B, 302A, 302B; or consent of instructor. (4 units)

**507. Advanced Creative Writing: Poetry**

Advanced-level workshop in poetry writing; discussion of student writing and exemplary texts by established poets. Formerly a topic under ENG 513. Prerequisite: ENG 417 or consent of instructor. (4 units)

**508. Advanced Creative Writing: Fiction**

Advanced-level workshop in fiction writing; discussion of student writing and exemplary texts by established fiction writers. Formerly a topic under ENG 513. Prerequisite: ENG 418 or consent of instructor. (4 units)

**510. English in the Secondary Classroom**

English as a secondary school subject including language, literature and composition. Emphasis on theories and practices associated with reading, writing, and assessment. Prerequisites: ENG 301B, 306, 311, 329, 385; and one course from ENG 302B, 303B, 304B. (4 units)

**511. Creative Writing in the Classroom**

Advanced methods for teaching the techniques of creative writing, focusing primarily on poetry and fiction. Intended for future elementary and secondary teachers. Requires a minimum six-hour field component. Prerequisite: ENG 317 or 318. (4 units)

**513. Advanced Creative Writing in Specialized Genres**

Advanced workshop in writing in a specialized genre, with discussion of student writing and of exemplary works by established writers. May be repeated for credit as subject matter changes. Prerequisite: ENG 417 or 418 or consent of instructor. (4 units)

**515. Senior Seminar in Literature**

Advanced study of a selected literary topic, including consideration of critical theory and methodology. May be repeated for credit as topics change. ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; ENG 385; and consent of instructor. (4 units)

**516. Senior Project**

Preparation and submission of a portfolio of appropriate writing samples as the basis of a reflective essay showing how the portfolio demonstrates accomplishment of essential goals of the major. Graded credit/no credit. Prerequisite: completion of 135 units, including 40 units of the English major. (1 unit)

**517. Honors Project**

Preparation of a piece of graduate-level writing (which may be an expansion of one of the student's papers or other work) to be presented at an honors colloquium. Required attendance at honors colloquia. Graded credit/no credit. Prerequisite: 3.5 grade point average in the English major. (2 units)

**522. Independent Study in Writing**

Projects in advanced writing: fiction, non-fiction, poetry or drama. A total of eight units may apply to the English major or toward graduation. Prerequisites: ENG 513 and departmental approval; students must be enrolled in the Creative Writing track and the project must be approved by an instructor. (4 units)

**523. English Grammar II**

Advanced study and analysis of grammatical structures of English. Prerequisites: ENG 311 and 420. (4 units)

**524. Sociolinguistics**

An examination of language within social and cultural contexts, including ethnic, social and regional dialect variations in the United States. Prerequisites: ENG 311 and 420. (4 units)

**525. Seminar in Literary Theory and Criticism**

Advanced study in special topics in literary theory and criticism. May be repeated for credit as topics change. (4 units)

**526. English Phonetics and Phonology**

Sounds and sound patterns of spoken English, with special attention to the pronunciation problems encountered by learners of English as a second language. Prerequisite: ENG 311. (4 units)

**530. Issues in Tutoring Writing**

Study of the theory, principles and methods of tutoring students who need specific practice in writing. Those completing this course with a grade of "B" or better are eligible to participate in tutorial writing services on campus. Students in this class are expected to be proficient writers. Prerequisites: ENG 306 or equivalent and consent of instructor. (4 units)

**535. Images of Culture Through Children's Literature**

Becoming acquainted with the children's literature of various cultures and organizing this literature for curricular choices. (Also offered as ERDG 642. Student may not receive credit for both.) Graduate students are required to do coursework appropriate for graduate students. Prerequisite: ERDG 620 for students enrolled in the College of Education; consent of instructor for other students. (4 units)

**542. Literary Publication**

Principles and methods of literary publication. Students function as a literary staff dealing with key aspects of the production process, including helping to select, edit, and proof read poems, short stories, and plays. Two hours lecture and four hours laboratory. ENG 542A and 542B may each be taken once for credit.

- A. Producing print literary journal, The Pacific Review, and its web site. (4 units)
- B. Producing on-line literary journal, Gold Coast Review. (4 units)

**565. Special Studies in Writing**

Studies in particular topics in writing, such as assessment, learning theory and research on the teaching of writing. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

**566. Special Studies in Writing**

Studies in particular topics in writing, such as assessment, learning theory and research on the teaching of writing. May be repeated for credit as topics change. Prerequisite: consent of instructor. (4 units)

**575. Internship in English**

Supervised learning experience applying English-related skills in a work setting. A total of eight units may be applied toward graduation. Graded credit/no credit. Generally assumes 30 hours of work/study per unit of credit. Prerequisites: junior standing with at least 16 units of course work in English on this campus with an overall grade point average of 3.0 or better; consent of instructor; and departmental approval of a written proposal submitted in advance of the quarter in which the course is to be taken. (2-5 units)

**595. Independent Study in Literature, Composition, or Linguistics**

Independent study of selected themes, figures, and areas in literature, composition, or linguistics. May be repeated for a maximum of eight units of credit toward the B.A. in English and toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (2-5 units)

# ENVIRONMENTAL HEALTH SCIENCE

## Department of Health Science and Human Ecology

Jack Brown Hall, Room 263  
(909) 537-5339 <http://health.csusb.edu/hsci/>

### Bachelor of Science in Health Science Concentration in Environmental Health Science

**Faculty:** Lal Mian

The Environmental Health Science Concentration is the appropriate choice for students who want to become health inspectors (i.e., Registered Environmental Health Specialist), industrial hygienists, or hazardous waste control experts. For those who plan on becoming Registered Environmental Health Specialists, this concentration is approved by the Environmental Specialist Registration Committee of the California State Department of Health Services. For further program information, course descriptions, and requirements for the B.S. in Health Science, see the Department of Health Science and Human Ecology on Page 204.

Students who are certified by the environmental health coordinator will have met the academic and experience requirements for admittance to the State Environmental Health Specialist Registration Examination.

#### Environmental Health Science Concentration Courses

##### Core Courses

1. HSCI 120. Health and Society: An Ecological Approach (5)
2. HSCI 315. Statistics for the Health Sciences ((4)
3. HSCI 352. Principles of Environmental Health (4)
4. HSCI 478. Environmental Health Management (4)
5. HSCI 367. Human Disease Mechanisms (4)
6. HSCI 451. Principles of Epidemiology (4)
7. HSCI 470. Health Behavior (4)

##### Concentration Courses

1. BIOL 200. Biology of the Cell (5)
2. BIOL 201. Biology of Organisms (5)
3. BIOL 202. Biology of Populations (5)
4. Five units chosen from:
  - BIOL 220. Principles of Microbiology (5)
  - BIOL 320. Microorganisms (6)
5. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
6. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
7. Organic chemistry, a minimum of five units, choose from Group A, B, or C:

##### Group A

- CHEM 206. Fundamentals of Chemistry II: Organic Chemistry (5)

##### Group B

- CHEM 221A. Organic Chemistry I: Lecture (3)
- CHEM 221B. Organic Chemistry I: Laboratory (1)
- CHEM 222A. Organic Chemistry II: Lecture (3)
- CHEM 222B. Organic Chemistry II: Laboratory (1)
- CHEM 223A. Organic Chemistry III: Lecture (3)
- CHEM 223B. Organic Chemistry III: Laboratory (1)

##### Group C

- CHEM 321. Principles of Organic Chemistry I (5)
- CHEM 322. Principles of Organic Chemistry II (5)
- CHEM 323. Principles of Organic Chemistry III (5)
- 8. HSCI 380. Toxicology (4)
- 9. HSCI 401. Advanced Environmental Health (5)
- 10. HSCI 402. Principles of Occupational Health (5)
- 11. HSCI 403. Vector-borne Disease Control (5)
- 12. HSCI 490. Health Service Administration (4)
- 13. HSCI 496. Internship in Environmental Health (4)
- 14. Four units chosen from:
  - MATH 192. Methods of Calculus (4)
  - MATH 211. Basic Concepts of Calculus (4)
- 15. A minimum of thirteen units, choose Group A or B below:

##### Group A:

- PHYS 121. Basic Concepts of Physics I (5)
- PHYS 122. Basic Concepts of Physics II (4)
- PHYS 123. Basic Concepts of Physics III (4)

##### Group B:

- PHYS 221. General Physics I (5)
- PHYS 222. General Physics II (5)
- PHYS 223. General Physics III (5)

16. Six units of health science electives chosen from:

- HSCI 322. Air Pollution (2)
- HSCI 324. Radiological Health and Safety (2)
- HSCI 354. Solid Waste Management (2)
- HSCI 356. Housing and Institutions (2)
- HSCI 358. Water Quality and Pollution Control (4)
- HSCI 381. Occupational Safety (4)
- HSCI 477. Environmental Health Engineering (4)
- HSCI 499. Directed Reading (1-4)
- HSCI 530. Food-Borne Illnesses and Their Prevention (4)
- HSCI 531. Bioterrorism (4)
- HSCI 557. Hazardous Material Control (4)
- HSCI 558. Management of Water Quality (4)
- HSCI 595. Independent Study (1-4)

# ENVIRONMENTAL STUDIES

## Department of Geography and Environmental Studies

Social and Behavioral Sciences Building, Room 327J  
(909) 537-5519 <http://geog.csusb.edu/>

### Bachelor of Arts

Environmental Studies - Track A

Environmental Studies - Track B

### Minor

Environmental Studies

**COORDINATOR:** Jeff Hackel

To accomplish its principal objective of promoting an understanding of the interaction of human beings with their environment, this interdisciplinary degree program includes courses primarily from the natural sciences and social sciences.

Major requirements from the natural sciences develop fundamental principles about the composition and functioning of the earth's ecosystems, principles deemed essential to a sound working knowledge of the environment. Course offerings from the social sciences assess the impact of human beings upon the environment and the possibility of creating different environments.

The program is designed for students who desire either to focus on a study of the environment as part of a broader liberal arts curriculum or to prepare for an environmentally related career or graduate school. Professional opportunities for graduates include a wide range of positions in public agencies responsible for developing and enforcing environmental controls, and in business, industry and nonprofit organizations which need qualified individuals to communicate environmental information and to assist in compliance with environmental regulations. Additional opportunities are available in conjunction with other programs of study, such as environmental law, environmental health, education and public administration.

### B.A. IN ENVIRONMENTAL STUDIES - TRACK A

#### Requirements (78-79 units)

**Total units required for graduation: 180**

#### Requirements for the B.A. in Environmental Studies - Track A:

Lower-division requirements (28 units)

1. BIOL 100. Topics in Biology (5)
2. CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
3. GEOG 201. Map Interpretation (4)
4. A minimum of fourteen units chosen from:
  - ANTH 100. Introduction to Anthropology: Human Evolution (4)
  - CHEM 206. Fundamentals of Chemistry II: Organic Chemistry (5)
  - GEOG 103. Physical Geography (5)
  - GEOL 101. Introductory Geology (5)
  - HSCI 120. Health and Society: An Ecological Approach (5)May choose only one of the following two courses:
  - PHYS 100. Physics in the Modern World (5)
  - PHYS 121. Basic Concepts of Physics I (5)

Upper-division requirements (30 units)

1. A minimum of four units chosen from:
  - BIOL 349. Biology of Ecosystems (5)
  - GEOG 370. Landscape Analysis (4)

2. Four units chosen from:
  - ECON 360. Economics of the Environment (4)
  - HSCI 478. Environmental Health Management (4)
3. Four units chosen from:
  - GEOG 304. Field Methods in Geography (4)
  - GEOG 306. Remote Sensing of Environment (4)
4. GEOG 350. Conservation and Natural Resources (4)
5. Four units chosen from:
  - GEOG 360. Weather and Climate (4)
  - GEOG 365. Climate Change (4)
6. Four units chosen from:
  - GEOG 480. Geomorphology (4)
  - GEOL 312. Geology of California (4)
7. Four units chosen from:
  - GEOG 305. Geographic Statistics and Research Methods (4)
  - MATH 305. Statistics: Hypothesis Testing and Estimation (4)
8. GEOG 500. Senior Seminar (2)

Electives (20 units)

1. A minimum of 20 units chosen from Groups 1 and 2 below: (Students must take at least two courses from each of the following groups provided that none have been used elsewhere to meet requirements of this major.)

#### Group 1:

- ANTH 475. Cultural Ecology (4)
- ECON 360. Economics of the Environment (4)
- GEOG 370. Landscape Analysis (4)
- GEOG 380. Population Geography (4)
- GEOG 415. Urban Planning and Land Development (4)
- GEOG 470. Hydrology and Water Resources (4)
- GEOG 480. Geomorphology (4)
- GEOL 312. Geology of California (4)
- HSCI 322. Air Pollution (2)
- HSCI 352. Principles of Environmental Health (4)
- HSCI 401. Advanced Environmental Health (5)
- PSCI 342. The Politics of Environment (4)

#### Group 2:

- GEOG 202. Introduction to Geographic Information Systems and Mapping (5)
- GEOG 304. Field Methods in Geography (4)
- GEOG 308. Advanced Geographic Information Systems (5)
- GEOG 402. Geographic Information Systems Applications (5)
- GEOL 301. Introduction to Geologic Mapping (4)
- HSCI 324. Radiological Health and Safety (2)
- HSCI 478. Environmental Health Management (4)

Students are encouraged to use approved independent study courses and approved internships for Group 1 and 2 electives.

### B.A. IN ENVIRONMENTAL STUDIES - TRACK B

#### Requirements (79 units)

**Total units required for graduation: 180**

#### Requirements for the B.A. in Environmental Studies - Track B:

Lower-division requirements (32 units)

1. BIOL 200. Biology of the Cell (5)
2. BIOL 201. Biology of Organisms (5)
3. BIOL 202. Biology of Populations (5)
4. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
5. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)



6. Five units chosen from:
  - PHYS 100. Physics in the Modern World (5)
  - PHYS 121. Basic Concepts of Physics I (5)

## Upper-division requirements (31 units)

1. CHEM 345. Modern Quantitative Analysis (5)
2. Four units chosen from:
  - ECON 360. Economics of the Environment (4)
  - HSCI 478. Environmental Health Management (4)
3. Four units chosen from:
  - GEOG 304. Field Methods in Geography (4)
  - GEOG 306. Remote Sensing of Environment (4)
4. GEOG 350. Conservation and Natural Resources (4)
5. Four units chosen from:
  - GEOG 360. Weather and Climate (4)
  - GEOG 365. Climate Change (4)
6. Four units chosen from:
  - GEOG 480. Geomorphology (4)
  - GEOL 312. Geology of California (4)
7. GEOG 500. Senior Seminar (2)
8. Four units chosen from:
  - GEOG 305. Geographic Statistics and Research Methods (4)
  - MATH 305. Statistics: Hypothesis Testing and Estimation (4)

## Electives (a minimum of 16 units)

1. A minimum of 16 units chosen from one of the following Groups 1 or 2 below:

**Group 1**

1. GEOG 370. Landscape Analysis (4)
  2. Five units chosen from:
    - BIOL 450. Ecology (5)
    - BIOL 455. Marine Biology and Oceanography (5)
  3. A minimum of seven units chosen from:
    - BIOL 319. Local Flora (5)
    - CHEM 221A. Organic Chemistry I: Lecture (3)
    - CHEM 221B. Organic Chemistry I: Laboratory (1)
    - CHEM 222A. Organic Chemistry II: Lecture (3)
    - CHEM 222B. Organic Chemistry II: Laboratory (1)
- May choose only one of the following two courses:
- GEOG 103. Physical Geography (5)
  - GEOL 101. Introductory Geology (5)
- HSCI 352. Principles of Environmental Health (4)
  - HSCI 401. Advanced Environmental Health (5)

**Group 2**

1. CHEM 221A. Organic Chemistry I: Lecture (3)
  - CHEM 221B. Organic Chemistry I: Laboratory (1)
  2. CHEM 222A. Organic Chemistry II: Lecture (3)
  - CHEM 222B. Organic Chemistry II: Laboratory (1)
  3. A minimum of eight units chosen from:
    - BIOL 319. Local Flora (5)
    - GEOG 370. Landscape Analysis (4)
- May choose only one of the following two courses:
- BIOL 450. Ecology (5)
  - BIOL 455. Marine Biology and Oceanography (5)
- May choose only one of the following two courses:
- GEOG 103. Physical Geography (5)
  - GEOL 101. Introductory Geology (5)
- GEOL 322. Introduction to Geochemistry (3)
  - HSCI 352. Principles of Environmental Health (4)
  - HSCI 401. Advanced Environmental Health (5)

Students are encouraged to use of approved independent study courses and approved internships for Group 1 and 2 electives.

**MINOR IN ENVIRONMENTAL STUDIES****Requirements (34 units)****Requirements for a minor in Environmental Studies:**

## Lower-division requirements (14 units)

1. Five units chosen from:
  - BIOL 100. Topics in Biology (5)
  - BIOL 202. Biology of Populations (5)
  - HSCI 120. Health and Society: An Ecological Approach (5)
2. Five units chosen from:
  - GEOG 103. Physical Geography (5)
  - GEOL 101. Introductory Geology (5)
3. GEOG 201. Map Interpretation (4)

## Upper-division requirements (8 units)

1. GEOG 350. Conservation and Natural Resources (4)
2. Four units chosen from:
  - ECON 360. Economics of the Environment (4)
  - HSCI 478. Environmental Health Management (4)

## Electives (12 units)

1. A minimum of 12 units chosen from the following courses. In consultation with the environmental studies coordinator, a student can choose other courses, besides those listed below, to meet the elective requirement.
  - BIOL 349. Biology of Ecosystems (5)
  - BIOL 450. Ecology (5)
  - ECON 360. Economics of the Environment (4)
  - GEOG 202. Introduction to Geographic Information Systems and Mapping (5)
  - GEOG 305. Geographic Statistics and Research Methods (4)
  - GEOG 360. Climate and Weather (4)
  - GEOG 365. Climate Change (4)
  - GEOG 370. Landscape Analysis (4)
  - GEOG 470. Hydrology and Water Resources (4)
  - GEOL 312. Geology of California (4)
  - GEOL 375. Groundwater Hydrology (4)
  - HSCI 352. Principles of Environmental Health (4)
  - HSCI 401. Advanced Environmental Health (4)
  - HSCI 478. Environmental Health Management (4)
  - MGMT 324. International Environmental Management (4)

**HONORS IN THE MAJOR**

Students majoring in environmental studies are eligible to receive honors in environmental studies at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major, both at this university and overall;
3. An overall undergraduate grade point average of 3.0 ("B") or better;
4. Completion of a senior project approved in advance by the program coordinator.

Students interested in receiving this recognition must initiate the process by making a formal application with the Geography Department administrative support coordinator.

# ETHNIC STUDIES

## College of Social and Behavioral Sciences

Social and Behavioral Sciences Building, Room 207  
(909) 537-7500 <http://csbs.csusb.edu/>

### Minor

- Ethnic Studies
- with options in:
  - General Ethnic Studies
  - African American Studies
  - Asian Pacific American Studies
  - Chicano(a)/Latino(a) Studies
  - Native American Studies

**COORDINATOR:** Marcia Marx

Ethnicity is an interdisciplinary study of American nationality and race, and utilizes knowledge from the humanities and social sciences to explore issues and experiences. Faculty teaching in the program represent the wide diversity of these disciplines. Essentially, Ethnic Studies is part of American Studies rather than regional, area or international studies. The study of American ethnicity and race is designed to enhance the understanding of a multicultural and multiracial society.

The Center for Ethnic Studies oversees the program including academic advising and mentoring of students. Collaborative efforts between students and faculty may result in research proposals, data compilation, joint professional papers for academic conferences, and joint publications.

Jointly governed by the College of Social and Behavioral Sciences and the College of Arts and Letters, the Center's director works closely with an Advisory Council whose members are drawn from the faculty of every college as well as students and staff.

## MINOR IN ETHNIC STUDIES

### Requirements (28 units)

To earn the minor in ethnic studies, students must complete 28 units of coursework with a concentration to be chosen in consultation with an advisor, in only one of the following five specializations:

- General Ethnic Studies
- African American Studies
- Asian Pacific American Studies
- Chicano(a)/Latino(a) Studies
- Native American Studies

### Requirements for a minor in Ethnic Studies:

Core Courses (8 units)

1. ES 100. Ethnicity and Race in America (4)
2. ES 300. Research Methods in Ethnic Studies (4)

Topic Courses (4 units)

1. Four units chosen from:
  - ES 392. Topics in Ethnic Studies (2) for a total of (4)
  - ES 394. Topics in Ethnic Studies (4)

**Note:** Students may consider relevant course substitution with the approval of the ethnic studies coordinator.

Electives (16 units):

1. In consultation with an Ethnic Studies advisor, 16 units are to be selected from only one of the five specialized concentrations below:

**Note:** Students may consider relevant course substitution with the approval of the ethnic studies coordinator.

### General Ethnic Studies

Select 16 units (no more than one elective course from the same department may count toward elective units) from:

1. Eight units chosen from the College of Arts and Letters:
  - ART 323. Native North American Art (4)
  - ART 329. Chicano Art (4)
  - COMM 302. Communication, Language and Culture (4)
  - COMM 304. Intercultural Communication (4)
  - COMM 401. Gender, Race and Media (4)
  - COMM 402. Ethnography of Communication (4)
  - COMM 580. Culture and Ethnicity in Language (4)
  - ENG 314. American Indian Literature (4)
  - ENG 323. Chicano Literature (4)
  - ENG 339. African American Literature (4)
  - HUM 335. The Origin and Contemporary Role of Latino Culture (4)
  - HUM 350. Cultures of American Childhood (4)
  - HUM 370. African Heritage in the Arts (4)
  - HUM 450. Aspects of Chicana/o Culture (4)
  - HUM 460. Cultural Studies (4)
  - MUS 352. African American Music (4)
  - PHIL 364. Philosophy of Race and Ethnicity (4)
  - PHIL 375. Non-Western Philosophy (4)
  - SPAN 435. Chicano Literature in Spanish (4)
  - TA 462. African-American Theatre and Drama (4)
  - TA 465. Ethnic Film and Film Makers (4)
  - TA 468. Chicana/o and U.S. Latina/o Theatre (4)
2. Eight units chosen from the College of Social and Behavioral Sciences
  - ANTH 306. Aztecs, Maya, and Their Predecessors (4)
  - ANTH 307. Incas and Their Predecessors (4)
  - ANTH 323. Native North American Art (4)
  - ANTH 325. Human Biological Variation and the Concept of Race (4)
  - ANTH 330. Cross-Cultural Child-Rearing Practices (4)
  - ANTH 331. Anthropology of Human Development (4)
  - ANTH 332. Cross-Cultural Perspectives on Aging (4)
  - ANTH 333. Sex and Gender in Cross-Cultural Practices (4)
  - ANTH 335. Cross-Cultural Perspectives on Crime and Deviance (4)
  - ANTH 351. Indians of North America (4)
  - ANTH 352. Indians of the Southwest (4)
  - ANTH 365. Asian American Cultures (4)
  - ANTH 380. Gender and Language (4)
  - ANTH 388. Language and Culture (4)
  - ANTH 466. Anthropology of Health, Illness and Healing (4)
  - ECON 352. Political Economy of Poverty and Discrimination (4)
  - ES 595. Independent Study (1-4) for a total of (4)
  - GEOG 322. United States and Mexico Border Issues (4)
  - HIST 340. African-American History, 1620-1865 (4)
  - HIST 341. African-American History, 1865-Present (4)
  - HIST 391. Chicano History (4)
  - HIST 465. Modern Central America (4)
  - HIST 470. Modern Latin America (4)
  - HIST 565. Ethnic Minorities in American History (4)
  - HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
  - HIST 567. The Asian-American Experience (4)
  - PSYC 340. Stereotyping, Prejudice and Discrimination (4)
  - PSYC 345. Cross-Cultural Psychology (4)
  - SOC 410. Sociology of Race and Ethnicity (4)
  - SOC 425. Asian Americans: Origins and Ethnicity (4)
  - SOC 441. Black Social Stratification (4)
  - SOC 442. Chicano Social Stratification (4)
  - SOC 525. Indian Nations and Native America (4)

- SSCI 300. Nonwestern World (4)  
 SSCI 316. Race and Racism (4)  
 SSCI 350. Roots of Modern Racism in America (4)

**Note:** Students may receive credit for only one of the following:

- ANTH 323. Native North American Art (4)  
 ART 323. Native North American Art (4)

#### African American Studies

- Sixteen units chosen from:
  - ES 595. Independent Study (1-4) for a total of (4)
  - ENG 339. African American Literature (4)
  - HIST 340. African-American History, 1620-1865 (4)
  - HIST 341. African-American History, 1865-Present (4)
  - HUM 370. African Heritage in the Arts (4)
  - MUS 352. African American Music (4)
  - SOC 336. Black Women and Feminism (4)
  - SOC 341. Marriage and Family Among Blacks (4)
  - SOC 441. Black Social Stratification (4)
  - TA 462. African-American Theatre and Drama (4)
  - TA 465. Ethnic Film and Film Makers (4) (when the topic pertains to African American studies)

#### Asian Pacific American Studies

- Sixteen units chosen from:
  - ANTH 365. Asian American Cultures (4)
  - ES 595. Independent Study (1-4) for a total of (4)
  - HIST 567. The Asian-American Experience (4)
  - PHIL 375. Non-Western Philosophy (4)
  - SOC 425. Asian Americans: Origins and Ethnicity (4)
  - TA 465. Ethnic Film and Film Makers (4) (when the topic pertains to Asian American/Asian Pacific American)

#### Chicano(a)/Latino(a) Studies

- Sixteen units chosen from:
  - ART 329. Chicano Art (4)
  - COMM 409. Latina/os, Media and Culture (4)
  - ENG 323. Chicano Literature (4)
  - ES 595. Independent Study (1-4) for a total of (4)
  - GEOG 322. United States and Mexico Border Issues (4)
  - HIST 391. Chicano History (4)
  - HUM 335. The Origin and Contemporary Role of Latino Culture (4)
  - HUM 450. Aspects of Chicana/o Culture (4)
  - SOC 342. The Chicano Family (4)
  - SOC 442. Chicano Social Stratification (4)
  - SPAN 435. Chicano Literature in Spanish (4)
  - TA 465. Ethnic Film and Film Makers (4) (when the topic pertains to Chicano)
  - TA 468. Chicano/a and U.S. Latino/a Theatre (4)

#### Native American Studies

- Sixteen units chosen from:
  - ANTH 305. North American Prehistory (4)
  - ANTH 306. Aztecs, Maya, and Their Predecessors (4)
  - ANTH 307. Incas and Their Predecessors (4)
  - ANTH 351. Indians of North America (4)
  - ANTH 352. Indians of the Southwest (4)
  - ART 323. Native North American Art (4)
  - ENG 314. American Indian Literature (4)
  - ES 595. Independent Study (1-4) for a total of (4)
  - SOC 525. Indian Nations and Native America (4)

## MINOR IN ETHNIC STUDIES - CHICANO(A)/LATINO(A) STUDIES

### Requirements (28 units)

Designed to provide increased awareness, knowledge and an in-depth understanding, the minor in Ethnic Studies, Chicano(a)/Latino(a) Studies will address issues of language, history, culture, politics, economics, education, immigration and the creative expression of the Chicano/Latino presence in this country. Students will examine this growing ethnic group's experience in a social context and its interdependence with other populations by addressing interracial, intercultural and international understanding.

### Requirements for a minor in Ethnic Studies - Chicano(a)/Latino(a) Studies

- ES 102. Chicano(a)/Latino(a) Culture: An Overview (4)
- ES 300. Research Methods in Ethnic Studies (4)
- ES 394. Topics in Ethnic Studies (4)
- Eight units chosen from:
  - ANTH 306. Aztecs, Maya, and Their Predecessors (4)
  - ES 595. Independent Study (2 or 4)
  - HIST 391. Chicano History (4)
  - HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
  - PSCI 352C. Minority Politics: Latino Politics (4)
  - SOC 342. The Chicano Family (4)
  - SOC 442. Chicano Social Stratification (4)
- Eight units chosen from:
  - ART 328. Mexican Art (4)
  - ART 329. Chicano Art (4)
  - ENG 323. Chicano Literature (4)
  - HUM 335. The Origin and Contemporary Role of Latino Culture (4)
  - HUM 450. Aspects of Chicana/o Culture (4)
  - SPAN 435. Chicano Literature in Spanish (4)

## COURSE OFFERINGS IN ETHNIC STUDIES (ES)

### Lower Division

#### 100. Ethnicity and Race in America

Culture, history and politics, and current problems of ethnic and racial minorities. Major groups included will be Black, Chicano, Asian American, and Native American. (GE=D4) (4 units)

#### 102. Chicano(a)/Latino(a) Culture: An Overview

Introduction to the central concepts and historical experiences that define Chicano(as)/Latino(as) in the United States and an examination of current trends through a multidisciplinary perspective. (4 units)

### Upper Division

#### 300. Research Methods in Ethnic Studies

Development and implementation of research (quantitative or qualitative) that explores in depth one or more facets of ethnic experience. (4 units)

#### 392. Topics in Ethnic Studies

A selected area or issue of ethnic studies. May be repeated for credit as topics change. (2 units)

#### 394. Topics in Ethnic Studies

A selected area or issue of ethnic studies. May be repeated for credit as topics change. (4 units)

**595. Independent Study**

For students capable of individualized work and in need of advanced or specialized study. May be repeated for credit in the Ethnic Studies minor for a total of no more than eight units. Prerequisites: consent of instructor and Ethnic Studies Program Committee approval.  
(1-4 units)



# FINANCE

## Department of Accounting and Finance

Jack Brown Hall, Room 459  
(909) 537-5704 <http://www.acf.csusb.edu/>

**FACULTY:** Gene Andrusco (Emeritus), Francisca Beer, Rafique Bhuyan, Haiwei Chen, James Estes, Rauf Khan (Emeritus), Dong Man Kim, Greg Richey, Ghulam Sarwar (Chair), Mo Vaziri, Taewon Yang

The university offers concentrations in finance within the Bachelor of Arts in Administration, the Bachelor of Science in Administration and the Master of Business Administration. The details of these programs are listed under Administration on Page 71. The Master of Business Administration can be found on Page 365. The courses listed below are offered in support of these programs. Further information is available from the Department of Accounting and Finance.

### COURSE OFFERINGS IN FINANCE (FIN)

#### Lower Division

##### 101. Financial Choices in Life

An introduction to how financial choices affect lifestyle decisions, economic stress, and wellbeing. Topics include how students deal with credit cards, student loans, leasing vs. buying cars, insurance, employee benefits, housing, investments, and retirement decisions. (GE=E1) (2 units)

#### Upper Division

Enrollment in upper-division courses restricted to students who have met all prerequisites and have completed at least 90 quarter units (junior class level). Students who do not meet these requirements will be disenrolled.

##### 313. Business Finance

Basic principles of financial analysis for management. Techniques of financial decision-making for liquidity management, financial forecasting, dividend policy and selection of sources of capital. Prerequisites: ACCT 212 or 312, MATH 110 and SCM 210. (4 units)

##### 314. Corporate Financial Management

An advanced study of internal business financial policies and decisions. Includes: capital budgeting, sources and forms of long-term financing, financial structure, cost of capital, equity management, and mergers and acquisitions. Prerequisite: FIN 313. (4 units)

##### 360. Financial Planning Process and Insurance

Modern money management with discussion of budgeting, banking, real estate, insurance, consumer credit, retirement, and estate planning. The course also examines the identification of risk exposures and the various tools used to address these risks. Prerequisite: FIN 313. (4 units)

##### 380. Principles of Real Estate

Basic issues in real estate, including legal concepts, appraisal, financing, investment, brokerage, and management of real estate. This class also contributes toward the state requirements for pre-license education. Prerequisite: FIN 313 or consent of instructor. (4 units)

##### 430. Financial Theory and Practice

Financial management with application to capital markets, financial planning, capital budgeting, capital structure, portfolio selection and managerial problems. Prerequisites: FIN 313 and 314. (4 units)

##### 432. Financial Institutions and Capital Formation

Structure, operations, portfolio compositions and problems of financial intermediaries and markets. Prerequisites: FIN 313 and 314. (4 units)

##### 433. International Business Finance

Financial operations of multinational businesses with emphasis on foreign exchange mechanics, funds transmission, financing instruments, institutions and markets, capital investment decisions and special problems facing a firm in this unique environment. Three hours lecture and two hours activity laboratory. Prerequisite: FIN 313. (4 units)

##### 435. Investment Analysis

Analysis and forecasting of security markets, industry studies, portfolio construction. Three hours lecture and two hours activity laboratory. Prerequisites: FIN 313, 314 and 430. (4 units)

##### 445. Financial Analysis and Decision-Making

Decision-making in financial management. Advanced financial applications and analysis, including reporting and presentations. Students are advised to take this course near the end of their program. Three hours lecture and two hours activity laboratory. Prerequisite: FIN 430. (4 units)

##### 460. Retirement Planning

Analysis of key issues in retirement planning: Individual Retirement Accounts, 401k's, defined benefit plans, profit sharing plans, and other retirement planning instruments. Prerequisite: FIN 360. (4 units)

##### 480. Real Estate Appraisal

Examines the appropriate methodology for determining the value of real estate, including both theory and practice. A foundation for potential licensing and certification will be developed. Meets requirement for California Broker Credit. Prerequisite: FIN 313. (4 units)

##### 481. Real Estate Practice

Legal, marketing and financial aspects of running a real estate business. Focus will be on the practical application of real estate theory to the operation of the firm. Meets state requirements applicable toward the real estate broker license. (4 units)

##### 482. Real Estate Development

Aspects of the real estate development process from the location of the property to the best use of the property. (4 units)

##### 485. Legal Aspects of Real Estate

Legal aspects of real estate transactions will be emphasized. Legal considerations of listing contracts, purchase agreements, disclosure requirements, trust deeds, promissory notes and agency will be the key topics. Liability exposures to all parties will also be explored in the real estate transaction. California Broker credit can also be received. (4 units)

**503. Financial Management Concepts**

An introductory course in financial management with an emphasis on concepts, tools and strategies underlying corporate financial decision-making. Topics include techniques used by firms in procuring and allocating capital for short-term and long-term operations. No credit will be awarded to students who have had FIN 313 and 314. May not be counted toward fulfilling requirements for any degree program offered by the College of Business and Public Administration. Prerequisite: ACCT 503. (4 units)

**523. Security Trading and Analysis**

An applied investment analysis course, emphasizing the application of modern portfolio theory and asset allocation models in selecting and evaluating stocks and bonds. This web-enhanced course utilizes modern computer and data facilities to conduct extensive fundamental and technical analysis, security portfolio tracking, performance measurement, and trading simulation and strategies. Prerequisite: FIN 503 or equivalent. (4 units)

**534. Export-Import Financing**

International complexities of exporting and importing. Emphasis on the benefits of international trade, the various ways to enter the global market, project financing, trading blocs and investment strategies, components of an export-import quotation, methods of payment, imports, exports, contracts and public and private assistance programs. Prerequisite: FIN 313. (4 units)

**575. Internship in Finance**

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

**585. Real Estate Finance**

Financial aspects of real estate investment, including analysis of investment characteristics, lending environment, financial instruments, and effective loan proposals. Three hours lecture and two hours activity laboratory. Prerequisite: FIN 313 or consent of instructor. (4 units)

**590. Seminar in Finance**

An intensive study of some phase of finance to be developed by the instructor. May be repeated for credit as topics change. (4 units)

**595. Independent Study**

Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (2 or 4 units)

# FOREIGN LANGUAGES AND LITERATURES

## Department of World Languages and Literatures

University Hall, Room 314  
(909) 537-5847 <http://flan.csusb.edu>

**FACULTY:** Jacques Benzakein (Emeritus), Ruth Burke, Myung Choi, Rafael Correa, Khamla Dhouti, Arturo Fernández-Gibert, M. Antonietta Gallegos-Ruiz, Kareen Gervasi, Mirta A. González (Emeritus), Carmen Jany, J. David Jerez-Gomez, Jorun Johns (Emeritus), Elizabeth Martin, Terri Nelson (Chair), Walter Oliver (Emeritus), Daniel Whitaker (Emeritus), Aurora Wolfgang, Eri Yasuhara

The Department of World Languages and Literatures offers a wide variety of courses both in the foreign languages and in English. The languages include American Sign Language, Arabic, French, German, Greek, Japanese, Korean, Latin, Mandarin, and Spanish. American Sign Language, Japanese, Mandarin and courses that apply comprehensively to all languages, including English, appear below. The offerings of Arabic, French, German and Spanish can be found separately listed in alphabetical order within the undergraduate section of this catalog.

The principal objectives of the department's programs are to teach students to understand, speak, read and write the world languages offered; and to promote an understanding of world civilizations and an appreciation of their literatures. This background will prepare students to teach foreign languages and will provide language skills for those interested in positions such as librarian, interpreter, translator, foreign service officer, foreign trade specialist, international trade, diplomacy, intelligence and law enforcement.

## COURSE OFFERINGS IN FOREIGN LANGUAGES AND LITERATURES (FLAN)

### Lower Division

#### 100. English as a Second Language

Self-paced course designed to help students gain mastery of the English language at beginning, intermediate and advanced levels. No more than 10 units are applicable to a baccalaureate degree. Open only to foreign students for whom English is a second language. Prerequisite: consent of instructor. (4 units)

#### 101. Language Study I

Introduction to a language not offered as a major or minor. Fundamentals of pronunciation, structure and culture designed to develop the ability to use and understand the chosen language. May be repeated for credit as topics change.

- C. Italian (4 units)
- D. Portuguese (4 units)
- E. Greek (4 units)
- F. Latin (4 units)
- G. Russian (4 units)
- H. Turkish (4)
- K. Korean (4 units)
- L. Vietnamese (4 units)

#### 102. Language Study II

Further study in a language not offered as a major or minor. Fundamentals of pronunciation, structure and culture designed to develop the ability to use and understand the chosen language. May be repeated for credit as topics change. Prerequisite: FLAN 101 in the chosen language. (GE=C3)

- C. Italian (4 units)
- D. Portuguese (4 units)
- E. Greek (4 units)
- F. Latin (4 units)
- G. Russian (4 units)
- H. Turkish (4)
- K. Korean (4 units)
- L. Vietnamese (4 units)

#### 111. Directed Language Study I

Independent language study under supervision of a faculty member. Involves textbook, online and multimedia materials for self-instruction, as well as weekly conversation practice with a native speaker. (4 units)

#### 112. Directed Language Study II

Independent language study under supervision of a faculty member. Involves textbook, online and multimedia materials for self-instruction, as well as weekly conversation practice with a native speaker. Prerequisite: FLAN 111 or permission of instructor. (4 units)

#### 113. Directed Language Study III

Independent language study under supervision of a faculty member. Involves textbook, online and multimedia materials for self-instruction, as well as weekly conversation practice with a native speaker. Prerequisite: FLAN 112 or permission of instructor. (4 units)

#### 150. Intermediate Language Study

Intermediate study in a language not offered as a major or minor. Emphasis on oral and written competency at the intermediate level in a cultural context. May be repeated for credit as topics change. Prerequisite: two years of high school study in the chosen language or equivalent. (GE=C3)

- C. Italian (4 units)
- D. Portuguese (4 units)
- E. Greek (4 units)
- F. Latin (4 units)
- G. Russian (4 units)
- H. Turkish (4 units)
- K. Korean (4 units)
- L. Vietnamese (4 units)

#### 211. Directed Language Study IV

Independent language study under supervision of a faculty member. Involves textbook, online and multimedia materials for self-instruction, as well as weekly conversation practice with a native speaker. Prerequisite: FLAN 113 or permission of instructor. (4 units)

#### 212. Directed Language Study V

Independent language study under supervision of a faculty member. Involves textbook, online and multimedia materials for self-instruction, as well as weekly conversation practice with a native speaker. Prerequisite: FLAN 211 or permission of instructor. (4 units)

#### 213. Directed Language Study VI

Independent language study under supervision of a faculty member. Involves textbook, online and multimedia materials for self-instruction, as well as weekly conversation practice with a native speaker. Prerequisite: FLAN 212 or permission of instructor. (4 units)

**Upper Division****312. Pedagogies for Foreign Language Teaching**

Theories and practice of foreign language acquisition and teaching in an English-speaking environment. Focuses on relevant methodological practices and familiarizes prospective foreign language teachers with the Standards for Language Learning from the American Council on the Teaching of Foreign Languages. Offered for World Language majors. Class taught in English. (4 units)

**320. Masterpieces of Literature**

Selected masterpieces and authors from Western Europe and Latin America. Course taught entirely in English. No foreign language prerequisite. May be repeated for credit as topics change. (4 units)

**350. Language Acquisition and Early Field Experience for Future Teachers**

Theories of language acquisition, including supervised observation of the public school classroom. Taught in English for all prospective single-subject teachers in the department. Prerequisite: junior standing or consent of instructor. (4 units)

**400. Readings in the Disciplines**

Research in a target language for courses in another discipline. Can be repeated for up to four units. Prerequisites: one 300-level course in a target language and department approval of research proposal which must be signed by instructor of the discipline-based course. (1 unit)

**555. Independent Study**

Independent study of individual writers and genres. Prerequisites: one 300-level course in the language under study or consent of instructor, a minimum overall grade point average of 3.0, and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (4 units)

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**COURSE OFFERINGS IN  
AMERICAN SIGN LANGUAGE (ASL)**

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**Lower Division****101. American Sign Language I**

Introduction to the language. Fundamentals of signing and language structure designed to develop the ability to use and understand the language. Formerly FLAN 101A. (4 units)

**102. American Sign Language II**

Further study in American Sign Language. Fundamentals of signing and language structure to further develop the ability to use and understand the language. Formerly FLAN 102A. Prerequisite: ASL 101 or consent of department. (GE=C3) (4 units)

**150. American Sign Language III**

Intermediate study in American Sign Language. Emphasis on proficiency/competence at the intermediate level. Formerly FLAN 150A. Prerequisite: ASL 102. (GE=C3) (4 units)

**201. American Sign Language IV**

Continued study of American Sign Language at the intermediate level. Prerequisite: ASL 150 or equivalent. (4 units)

**202. American Sign Language V**

Continued study of American Sign Language at the intermediate level. Prerequisite: ASL 201 or equivalent. (4 units)

**203. American Sign Language VI**

Continued study of American Sign Language at the intermediate level. Prerequisite: ASL 202 or equivalent. (4 units)

**232. Introduction to ASL Interpreting**

Overview and practical application of interpretation. Emphasis on the professional code of ethics and professional concerns. Formerly FLAN 232. Prerequisite: ASL 150. (4 units)

**Upper Division****301. Advanced American Sign Language I**

Study of ASL at an advanced level. Prerequisite: ASL 203 or equivalent. (4 units)

**302. Advanced American Sign Language II**

Study of ASL at an advanced level. Prerequisite: ASL 301 or equivalent. (4 units)

**350. Deaf Students and Culture**

Analysis and discussion of Deaf culture through study of the cultural, educational, geographic, and economic factors that influenced the historical evolution of the Deaf community in terms of language, culture and the arts. Taught in English (4 units)

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**COURSE OFFERINGS IN  
JAPANESE (JAPN)**

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**Lower Division****101. College Japanese I**

Introduction to beginning level Japanese, including the basic structures of the written language. Emphasis is on listening, speaking, reading and writing. (4 units)

**102. College Japanese II**

Develops listening and active speaking skills with further development of reading and writing skills while expanding vocabulary of daily life. Prerequisite: JAPN 101 or consent of department. (GE=C3) (4 units)

**150. Intermediate Japanese**

Develops listening and speaking skills with emphasis on reading and writing skills. Emphasis on negotiating routine social situations and more complex tasks. Prerequisite: JAPN 102 or consent of department. (GE=C3) (4 units)

**201. Second Year College Japanese I**

Further study of the language to attain proficiency in four language skills: listening, speaking, reading and writing. Students will improve fluency from class discussion on a variety of topics including social issues and aspects of Japanese culture. Prerequisite: JAPN 150 or consent of department. (4 units)

**202. Second Year College Japanese II**

Emphasis on the continued vocabulary and syntactic development of the language to attain proficiency in four language skills: listening, speaking, reading and writing. Prerequisite: JAPN 201 or consent of department. (4 units)

**203. Second Year College Japanese III**

Further development of proficiency in speaking, listening, reading, and writing. Further expansion of vocabulary enhances ability of students to understand and express more complex ideas and concepts. Prerequisite: JAPN 202 or consent of department. (4 units)



**290. Japanese Literature in Translation**

Introduction to Japanese literature read in English translation. Selection of writers and genres from classical and contemporary Japanese literature. (GE=C3) (4 units)

**COURSE OFFERINGS IN****KOREAN (KOR)****Lower Division****201. Second Year College Korean I**

Second year course in modern Korean. Develops proficiency in listening, speaking, reading and writing, with a cultural emphasis. Students learn useful expressions and communication strategies for everyday situations in the language. Prerequisite: FLAN 150K or consent of department. (4 units)

**202. Second Year College Korean II**

Continuation of second year Korean. Provides students with further conversational and grammatical skills beyond those learned in KOR 201. Emphasis on communicative skills, speaking, reading, and writing with more complex structures in Korean. Prerequisite: KOR 201 or consent of department. (4 units)

**203. Second Year College Korean III**

Further development of proficiency in speaking, listening, reading, and writing. Further expansion of vocabulary enhances ability of students to understand and express more complex ideas and concepts. Prerequisite: KOR 202 or consent of department. (4 units)

**COURSE OFFERINGS IN****MANDARIN (MAND)****Lower Division****101. College Mandarin I**

Introduction to beginning level Mandarin, including the basic structures of the written language. Emphasis is on listening, speaking, reading and writing. (4 units)

**102. College Mandarin II**

Develops listening and active speaking skills with further development of reading and writing skills while expanding vocabulary of daily life. Prerequisite: MAND 101 or consent of department. (GE=C3) (4 units)

**150. Intermediate Mandarin**

Develops listening and speaking skills with emphasis on reading and writing skills. Emphasis on negotiating routine social situations and more complex tasks. Prerequisite: MAND 102 or consent of department. (GE=C3) (4 units)

**201. Second Year College Mandarin I**

Further study of the language to attain proficiency in four language skills: listening, speaking, reading and writing. Students will improve fluency from class discussion on a variety of topics including social issues and aspects of Chinese culture. (4 units)

**202. Second Year College Mandarin II**

Emphasis on the continued vocabulary and syntactic development of the language to attain proficiency in four language skills: listening, speaking, reading and writing. (4 units)

**203. Second Year College Mandarin III**

Integration of reading, writing, listening and speaking skills. Students are expected to familiarize themselves with the format of writing effective Chinese essays. Chinese philosophy, poetry, history and culture will be incorporated. (4 units)

**210. Mandarin Calligraphy**

Teaches students the seven brush strokes for writers. Students will learn the evolution of Chinese characters from ancient ideograms to modern written characters. (4 units)

**290. Chinese Literature in Translation**

Introduction to Chinese literature read in English translation. Selection of writers and genres from classical and contemporary Chinese literature. (GE=C3) (4 units)

# FRENCH

## Department of World Languages and Literatures

University Hall, Room 314  
(909) 537-5847 <http://flan.csusb.edu/>

### Bachelor of Arts

- French
- Literature Track
- Culture Studies Track
- Business Track

### Teaching Credential Program

French

### Minor

French

### Certificate Program

French/English Translation

**COORDINATOR:** Aurora Wolfgang

The study of French combines training in world studies with language, literature and culture. These studies contribute to the basis of any program of liberal education, affording insight into foreign attitudes and methods and permitting free communication, written and oral, among people.

In addition to the traditional preparation of teachers in the subject, a major in French can provide a good background for advanced professional or business programs, especially when combined with an appropriate second major.

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## B.A. IN FRENCH

### Requirements:

**Literature Track - 70 units**

**Culture Studies Track - 70 units**

**Business Track - 70 units**

**Total units required for graduation: 180**

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### Requirements for the B.A. in French:

Students may complete no more than 32 units of the required coursework for the B.A. in French through courses taught at other institutions or through International Programs. FREN 295, 496 and 500 may only be completed at CSUSB.

Core requirements (32 units)

1. Proficiency in French equal to that of French 201 or equivalent.
2. FREN 202. Culture and Communication III (4)
3. FREN 295. Intermediate Assessment (2)
4. FREN 303. Contemporary Spoken French (4)
5. FREN 307. Phonetics (4)
6. FREN 350. Advanced French Composition (4)
7. FREN 381. French Civilization I (4)
8. FREN 382. French Civilization II (4)
9. FREN 450. Advanced Grammar Review (4)
10. FREN 496. Senior Assessment (2)
11. One of the following tracks:

#### Literature Track (38 units)

1. FREN 310. Approaches to Literature (4)
2. Sixteen units chosen from:
  - FREN 336. Francophone Women Writers (4)
  - FREN 360. Contemporary French Fiction (4)
  - FREN 370. Francophone Film and Culture (4)

- FREN 411. Studies in the Novel (4)
- FREN 412. Studies in Theater (4)
- FREN 413. Studies in Poetry (4)
- FREN 420. Special Topics in French Literature (4)
- FREN 471. Culture and Identity (4)

#### 3. Eighteen units chosen from:

- FLAN 312. Pedagogies for Foreign Language Teaching (4)
- FREN 250. Reading and Interpretation (4)
- FREN 575. Internship (1-4)
- Any upper-division French course.

#### Culture Studies Track (38 units)

##### 1. Sixteen units chosen from:

- FREN 370. Francophone Film and Culture (4)
- FREN 407. Comparative Linguistics: French/English (4)
- FREN 460. Contemporary France (4)
- FREN 461. Contemporary Issues in the Francophone World (4)
- FREN 470. Special Topics in Francophone Cultures (2-4)
- FREN 471. Culture and Identity (4)

##### 2. Twenty-two units chosen from:

- FREN 250. Reading and Interpretation (4)
- FREN 575. Internship (1-4)
- Any upper-division French course.

#### Business Track (38 units)

##### 1. FREN 309B. French for Translators: Commercial Translation (2)

##### 2. FREN 409. Business French (4)

##### 3. Eight units chosen from:

- FREN 309A. French for Translators: General Translation (4)
- FREN 309C. French for Translators: Technical Translation (2)
- FREN 350. Advanced French Composition (4)
- FREN 460. Contemporary France (4)
- FREN 461. Contemporary Issues in the Francophone World (4)
- FREN 471. Culture and Identity (4)
- FREN 575. Internship (1-4)

##### 4. Sixteen units taken in the College of Business and Public Administration:

- ACCT 211. Introductory Accounting I (4)
- INFO 102. Introduction to Information Technology (2)
- INFO 103. Using Information Technology Applications (2)
- MGMT 302. Management and Organizational Behavior (4)
- MKTG 305. Marketing Principles (4)

##### 5. Electives (8 units) chosen from A or B below:

- A. Eight upper-division units chosen from a specific area in accounting, information management, management or marketing.
- B. Eight additional upper-division units in French.

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## TEACHING CREDENTIAL PROGRAM

The B. A. in French, Literature Track and B. A. in French, Culture Studies Track are approved as single subject teaching credential programs provided that students complete at least 36 hours of upper-division coursework in courses taught in French. Upper-division coursework must include FREN 407 and 500. Students may complete no more than 32 units of the required coursework for the B.A. in French through courses taught at other institutions or through International Programs. FREN 295, 496 and 500 may only be completed at CSUSB. For information about the professional education component, admission to the teacher education program or specific requirements of the single subject waiver program, see Page 157 or contact the Credentials Office, CE-102.

**MINOR IN FRENCH****Requirements (34 units)****Requirements for a minor in French:**

1. Proficiency in French equal to that of FREN 150. Intermediate French or equivalent.
2. FREN 201. Culture and Communication II (4)
3. FREN 202. Culture and Communication III (4)
4. Four units chosen from:
  - FREN 250. Reading and Interpretation (4)
  - FREN 310. Approaches to Literature (4)
5. FREN 295. Intermediate Assessment (2)
6. Eight units chosen from:
  - FREN 303. Contemporary Spoken French (4)
  - FREN 307. Phonetics (4)
  - FREN 309A. French for Translators: General Translation (4)
  - FREN 350. Advanced French Composition (4)
7. Twelve units chosen from any upper-division French courses.

**DEPARTMENTAL HONORS**

A graduating senior will be awarded departmental honors in French after meeting the following requirements:

1. Earned a 3.5 grade point average in the major.
2. Completed at least 45 units of the major at this university.
3. Successful completion of an oral and written honors evaluation.

Qualified students should apply for honors recognition during the first week of the quarter in which they are enrolled in FREN 496. The honors evaluation will take place during FREN 496. Exceptional performance on the oral and written evaluation may result in the waiving of requirements one and two above.

**CERTIFICATE PROGRAM**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. See Page 58 for additional certificate information.

**Certificate in French/English Translation****Certificate Requirements (26 units)**

1. Proficiency in French equal to that of FREN 150. Intermediate French or equivalent.
2. Four units chosen from:
  - FREN 250. Reading and Interpretation (4)
  - FREN 310. Approaches to Literature (4)
3. FREN 295. Intermediate Assessment (2)
4. FREN 309A. French for Translators: General Translation (4)
5. FREN 309B. French for Translators: Commercial Translation (2)
6. FREN 309C. French for Translators: Technical Translation (2)
7. FREN 350. Advanced French Composition (4)
8. Four units chosen from:
  - FREN 382. French Civilization II (4)
  - FREN 460. Contemporary France (4)
  - FREN 461. Contemporary Issues in the Francophone World (4)
9. Four units chosen from:
  - EDUC 306. Expository Writing for Education (4)
  - ENG 306. Expository Writing (4)
  - HUM 306. Expository Writing for the Humanities (4)

- MGMT 306. Expository Writing for Administration (4)
- NSCI 306. Expository Writing for the Natural Sciences (4)
- SSCI 306. Expository Writing for the Social Sciences (4)

**COURSE OFFERINGS IN FRENCH (FREN)****Lower Division**

Courses at the 101, 102 and 150 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours.

**101. College French I**

Emphasizes listening and speaking, with reading and writing as supporting skills. Students learn to formulate and respond to questions about their daily life, express preferences, as well as master the ability to list, enumerate, identify, compare, agree and disagree. (FREN 101+102+150=**CAN** FREN SEQ A) (4 units)

**102. College French II**

Develops listening and active speaking skills with further development of reading and writing skills while expanding vocabulary of daily life. Ability to describe events in present, near past and near future. Prerequisite: FREN 101 or consent of department. (**GE**=C3) (FREN 101+102+150=**CAN** FREN SEQ A) (4 units)

**150. Intermediate French**

Develops listening and speaking with emphasis on reading and writing skills. Student would be able to negotiate routine social situations and more complex tasks. Ability to recount events in the past, present and future. Prerequisite: FREN 102 or consent of department. (**GE**=C3) (FREN 101+102+150=**CAN** FREN SEQ A) (4 units)

**200. Culture and Communication**

Intermediate-level course in French culture and in the four language skills-oral comprehension, speaking, reading, and writing-designed to prepare students for the required courses in the core. Prerequisite: FREN 150 or equivalent. (**GE**=C3) (4 units)

**201. Culture and Communication II**

Second-year course to build proficiency in listening, speaking, reading and writing while enhancing knowledge of French-speaking world. Prerequisite: FREN 150 or 200 or consent of department. (**GE**=C3) (4 units)

**202. Culture and Communication III**

Second-year course to increase proficiency in listening, speaking, reading and writing while enhancing knowledge of the French-speaking world. Prerequisite: FREN 201 or consent of department. (**GE**=C3) (4 units)

**250. Reading and Interpretation**

Concentration on reading and interpretive writing skills in preparation for upper-division coursework in French. Prerequisite: FREN 202 or consent of department. (4 units)

**290. French Literature in English**

Introduction to French literature read in English translation. (**GE**=C3) (4 units)

**295. Intermediate Assessment**

Assessment of skills in reading, writing, listening, speaking and knowledge of culture based on defined performance standards. Students will be advised on how to improve skills and will also begin their on-line assessment portfolios. Satisfactory completion is required for enrollment in all upper-division French courses except FREN 303 and 307. Graded credit/no credit. (2 units)

**Upper Division**

Ordinarily, upper-division courses are conducted in French. Students enrolled in these courses will be evaluated on appropriate progress in both the command of the language and the subject matter.

**301. French for Reading I**

Students read French and translate from French to English. No prior knowledge of French is necessary. Students move from a novice level of reading skill to an intermediate level. This course is not applicable towards the French major, minor or certificate. (4 units)

**302. French for Reading II**

Building on the French reading skills of French 301, students move from an intermediate level of reading skill to an advanced level; by the end of the course students will be able to translate scholarly articles in French from a variety of disciplines into English. This course is not applicable towards the French major, minor or certificate. (4 units)

**303. Contemporary Spoken French**

Practice of contemporary spoken French through the reading and discussion of current topics in the French-speaking world. Prerequisite: FREN 202 or consent of department. (4 units)

**307. Phonetics**

In-depth study of the French sound system. Oral practice and study of general principles of French phonology and dialectology. Prerequisite: FREN 202 or consent of department. (4 units)

**309. French for Translators**

Extensive practice in precise written translations from French into English and from English into French. May be repeated for credit as topics change. Prerequisites: FREN 250 and 295 or consent of department.

- A. General Translation. (4 units)
- B. Commercial Translation. May be taken concurrently with FREN 309C. (2 units)
- C. Technical Translation. May be taken concurrently with FREN 309B. (2 units)

**310. Approaches to Literature**

Introduction to a variety of approaches to literature; how to read, interpret, understand, and explain a variety of literary genres (short stories, novels, poetry, theatre). Prerequisite: FREN 295 or consent of department. FREN 350 strongly recommended. (4 units)

**336. Francophone Women Writers**

Exploration of selected works by Francophone women writers, with emphasis on issues in women's lives. Prerequisites: FREN 295; and 250 or 310; or consent of instructor. (4 units)

**350. Advanced French Composition**

Improvement of written expression in a variety of genres, including narrative, correspondence, summaries and research reports. Frequent writing required. Course may be repeated once for credit. Prerequisites: FREN 295 or consent of department. (4 units)

**360. Contemporary French Fiction**

Exploration of fictional works by Francophone authors published since 1980. Particular attention will focus on how contemporary issues are revealed through these novels. Prerequisites: FREN 295; and 250 or 310; or consent of instructor. (4 units)

**370. Francophone Film and Culture**

Analysis and historical examination of Francophone cultures, literatures and themes through French-language films. Prerequisites: FREN 295; and 250 or 310; or consent of instructor. (4 units)

**381. French Civilization I**

Explores the national identity of the French people, as reflected in the arts and social and political institutions, from the Middle Ages to the Enlightenment. Prerequisites: FREN 295 or consent of department. (4 units)

**382. French Civilization II**

Explores the national identity of the French people as reflected in the arts and social and political institutions in the nineteenth and twentieth centuries. Prerequisites: FREN 250 and 295 or consent of department. (4 units)

**399. Community Service Project**

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of department. (1-2 units)

**407. Comparative Linguistics: French/English**

Application of modern linguistic theory to the problems of second-language acquisition in the areas of phonology, morphology, and syntax. Emphasis on practical implementation for teaching purposes. Prerequisites: FREN 295 and 307 or consent of department. (4 units)

**409. Business French**

Introduction to commercial institutions and socioeconomic aspects of contemporary France; development of useful vocabulary in commercial French. Prerequisites: FREN 295 or consent of department. FREN 309B strongly recommended. (4 units)

**411. Studies in the Novel**

Analysis of major novels written in French from various periods and Francophone cultures. Prerequisites: FREN 295 and 310 or consent of department. FREN 350 strongly recommended. (4 units)

**412. Studies in Theater**

Reading and discussion of representative dramatic works written in French from the seventeenth to the twentieth century. Prerequisites: FREN 295 and 310 or consent of department. FREN 350 strongly recommended. (4 units)

**413. Studies in Poetry**

Introduction to poetry as a genre, principles of French versification. Major contributions of Francophone poets. Prerequisites: FREN 250, 295 and 310 or consent of department. FREN 350 strongly recommended. (4 units)

**420. Special Topics in French Literature**

Critical examination of selected works in Francophone literature focusing on a particular theme or literary movement. May be repeated for credit as topics change. Prerequisites: FREN 295 and 310 or consent of department. FREN 350 strongly recommended. (4 units)

**450. Advanced Grammar Review**

An intensive review of advanced French grammar, including vocabulary building, proficiency in the written and spoken language. Prerequisites: FREN 295 and 350 or consent of department. (4 units)



#### 460. Contemporary France

Focus on society, politics and institutions of the Fifth Republic. Prerequisites: FREN 295; and 250 or 310; and 382; or consent of department. (4 units)

#### 461. Contemporary Issues in the Francophone World

Issues affecting the contemporary Francophone world, such as colonialism, regionalism, women's issues, intellectual movements, education and the arts. Prerequisites: FREN 295 or consent of department. FREN 350 strongly recommended. (4 units)

#### 470. Special Topics in Francophone Cultures

Critical examination of selected Francophone works focusing on a particular aspect of Francophone society or historical period. May be repeated for credit as topics change. Prerequisites: FREN 295; and 250 or 310; and 381 or 382; or consent of instructor. (2 or 4 units)

#### 471. Culture and Identity

Exploration of how Francophone literature, film, and histories can reveal cultural identities as well as analyses of how authors express their identities through these media. Particular attention will be paid to the development of post-colonial issues. Prerequisites: FREN 295; and 250 or 310; and 381 or 382; or consent of instructor. (4 units)

#### 496. Senior Assessment

Assessment of proficiency and performance in five skill areas: listening, speaking, reading, writing and culture. Submission of a student portfolio. Students who have not yet demonstrated the required proficiencies in all areas will not pass the course. Additional coursework may be assigned before the course can be repeated; therefore, students should take this course at least two quarters prior to their anticipated graduation. Students planning on entering a teacher credential program should take FREN 500 concurrently. Graded credit/no credit. (2 units)

#### 500. Advanced Performance Assessment

Students' performance in the five skills assessments of FREN 496 and the portfolio will be measured according to the outcomes expectations for teacher credential candidates. Minimum required performance in all areas is advanced-low with a required overall average of advanced-mid. Students will have additional required items in their assessment portfolios, including an official oral proficiency interview (additional fees required). Graded credit/no credit. Corequisite: FREN 496. (2 units)

#### 514. Seminar in French Language, Literature or Civilization

Advanced study of a single author, a literary movement, linguistics or civilization. May be repeated for credit as topics change. Prerequisite: one 400-level French course. (4 units)

#### 575. Internship

Internship offers students wishing to pursue careers using French opportunities to observe and work with professionals in the field. Requires 30 hours of work/study per unit of credit plus a report documenting their activities and reflecting on their experiences. Graded credit/no credit. May be repeated for credit for a maximum of four units. Prerequisites: FREN 295 and consent of department. (1-4 units)

# GEOGRAPHY

## Department of Geography and Environmental Studies

Social and Behavioral Sciences Building, Room 327J  
(909) 537-5519 <http://geog.csusb.edu/>

### Bachelor of Arts

Geography

### Minor

Geography

### Certificate Programs

Geographic Information Systems  
Urban Planning

**FACULTY:** Jeffrey Hackel (Chair), Michal Kohout, Ted McDowell, Norman Meek, James Mulvihill (Emeritus), Richard Rowland (Emeritus), Jenny Zorn

Geography is concerned with the spatial variations and inter-relationships between the natural and cultural features of the earth. Geographers study the earth primarily as the home of human beings. As an approach to knowledge, geography forms an interdisciplinary bridge between the physical and cultural worlds, examining both humans and their environment. As a synthesizing discipline, geography is an especially attractive major for liberal arts and science students. Its body of theory and methodologies provides an analytic technique applicable to a wide range of questions. For students planning to terminate their formal education with a bachelor's degree, it also provides both the regional and world perspective required of responsible citizens. For the same reasons, geography is especially valuable for those who plan to do graduate work. Geography offers job opportunities in teaching, business, government, armed forces, conservation and water resources, planning and market research, geographic information systems (GIS) and international organizations.

Students who can meet the qualifications are also encouraged to participate in the California State University's International Programs. Such participation will not only contribute immediately to the student's geographical knowledge and degree program, but may have longer-term educational and career benefits as well. For further information, see Page 20.

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## B.A. IN GEOGRAPHY

### Requirements (64 units)

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#### Total units required for graduation: 180

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#### Requirements for the B.A. in Geography:

Lower-division requirements (18 units)

1. GEOG 100. Introduction to Human Geography (4)
2. GEOG 103. Physical Geography (5)
3. GEOG 201. Map Interpretation (4)
4. GEOG 202. Introduction to Geographical Information Systems and Mapping (5)

Upper-division requirements (46 units)

1. GEOG 305. Geographic Statistics and Research Methods (4)
2. Twelve units chosen from:
  - GEOG 320. Geography of Social Issues (4)
  - GEOG 322. United States and Mexico Border Issues (4)
  - GEOG 350. Conservation and Natural Resources (4)
  - GEOG 380. Population Geography (4)
  - GEOG 420. Geography of Economic Activity (4)

May choose only one of the following two courses:

- GEOG 415. Urban Planning and Land Development (4)
- GEOG 440. Understanding the City (4)

3. Twelve units chosen from:

- GEOG 304. Field Methods in Geography (4)

May choose only one of the following two courses:

- GEOG 360. Weather and Climate (4)
- GEOG 365. Climate Change (4)

- GEOG 370. Landscape Analysis (4)

- GEOG 470. Hydrology and Water Resources (4)

- GEOG 480. Geomorphology (4)

4. Eight units chosen from:

- GEOG 312. Geography of the Developing World (4)

May choose one of the following two courses:

- GEOG 313. Geography of the Developed World (4)
- GEOG 323. Area Study: North America (4)

5. A minimum of four units chosen from:

- GEOG 306. Remote Sensing of the Environment (4)
- GEOG 307. Transportation Issues and Development (4)
- GEOG 308. Advanced Geographic Information Systems (5)
- GEOG 402. Geographic Information Systems Applications (5)
- GEOG 403. Advanced Map Design (5)
- GEOG 406. Digital Image Processing (4)

6. GEOG 500. Senior Seminar (2)

7. Four units of upper-division course work in geography except GEOG 300 and 311 which cannot count for the Geography major.

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## MINOR IN GEOGRAPHY

### Requirements (33 units)

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#### Requirements for a minor in Geography:

Lower-division requirements (9 units)

1. GEOG 100. Introduction to Human Geography (4)
2. GEOG 103. Physical Geography (5)

Upper-division requirements (24 units)

1. GEOG 420. Geography of Economic Activity (4)
2. Twenty units chosen from any geography courses, of which at least fifteen must be upper-division.

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## DEPARTMENTAL HONORS

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Students majoring in geography are eligible to receive honors in geography at graduation if they have:

1. Completed at least one-half of the course work required by the major at this university;
2. Earned a grade point average of at least 3.5 in the major, both at this university and overall;
3. Earned an overall undergraduate grade point average of 3.0 or better;
4. Completed a senior project approved in advance by the department chair.

Students interested in receiving this recognition must initiate the process by making a formal application with the Geography Department Administrative Support Coordinator.

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## CERTIFICATE PROGRAMS

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Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. See Page 58 for additional certificate information.

**Certificate in Geographic Information Systems****Certificate Requirements (28 units)**

1. GEOG 201. Map Interpretation (4)
2. GEOG 202. Introduction to Geographic Information Systems and Mapping (5)
3. GEOG 308. Advanced Geographic Information Systems (5)
4. GEOG 402. Geographic Information Systems Applications (5)
5. GEOG 403. Advanced Map Design (5)
6. A minimum of four units chosen from:
  - GEOG 306. Remote Sensing of Environment (4)
  - GEOG 406. Digital Image Processing (4)
  - GEOG 575. Internship in Geography (5)

**Certificate in Urban Planning****Certificate Requirements (25 units)**

1. GEOG 202. Introduction to Geographic Information Systems and Mapping (5)
2. GEOG 306. Remote Sensing of Environment (4)
3. GEOG 307. Transportation Issues and Development (4)
4. GEOG 415. Urban Planning and Land Development (4)
5. GEOG 440. Understanding the City (4)
6. Four units chosen from:
  - ANTH 493. Urban Anthropology (4)
  - ECON 360. Economics of the Environment (4)
  - GEOG 350. Conservation and Natural Resources (4)
  - GEOG 575. Internship in Geography (5)
  - HSCI 478. Environmental Health Management (4)
  - SOC 430. Urban Sociology (4)

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**COURSE OFFERINGS IN  
GEOGRAPHY (GEOG)**


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**Lower Division****100. Introduction to Human Geography**

Introduction to the global patterns and dynamics of such human activities as population growth and movements, politics, religion, language, urbanization, industrialization, and economic development. The course emphasizes the processes that produce regional and environmental differences. (GE=D4) (GEOG 100=CAN GEOG 4) (4 units)

**103. Physical Geography**

Systematic approach to the physical environment of man stressing the relationships between the atmosphere, land, life forms and water. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (GE=B3) (GEOG 103=CAN GEOG 6) (5 units)

**104. Physical Geography Laboratory**

Physical geography laboratory course designed to supplement a physical geography lecture course taken elsewhere without an accompanying laboratory. Materials fee required. Prerequisites: satisfactory score on the Entry Level Mathematics examination, the transferable equivalent of Introductory Physical Geography lecture, and permission of department. (1 unit)

**201. Map Interpretation**

Introduction to maps as a communication tool, focusing on map fundamentals, such as scale, symbols and design, as well as using maps as a practical device for navigation and spatial measurement. Participation in a weekend outdoor map reading exercise is required. (4 units)

**202. Introduction to Geographic Information Systems and Mapping**

An introduction to the fundamental principles and theories involved in working with geographic data within a geographic information system (GIS). Basic mapping concepts of scale, generalization, classification, map projections, coordinate systems, and spatial analysis are covered. Four hours lecture and three hours laboratory. Materials fee required. Formerly GEOG 301. (5 units)

**Upper Division****300. Geography in the Elementary and Middle School Classroom**

Introduces liberal studies students to geography in the California/Social Science Standards. Students learn to integrate geographic principles and theories with the other social sciences. May not be counted toward fulfillment of requirements in the geography major or minor. (4 units)

**302. Geography of California**

Systematic and regional study of California geography stressing general geographical concepts to explain sequential human settlement patterns in relation to the natural environment. (4 units)

**304. Field Methods in Geography**

Introduction to methods and techniques for the acquisition of geographic data from direct field measurement and observations. One hour lecture and six hours field activity. Materials fee required. Prerequisites: GEOG 103 and 201. (4 units)

**305. Geographic Statistics and Research Methods**

Introduction to basic statistical concepts and quantitative methods used in geography, including spatial analysis and the writing of geographic research reports. A computer statistical program is used. (4 units)

**306. Remote Sensing of Environment**

Interpretation of environmental phenomena recorded by satellite and aerial multispectral sensing systems, especially conventional aerial photography. Prerequisite: GEOG 103 or consent of instructor. (4 units)

**307. Transportation Issues and Development**

Transportation geography using both theory and applications. Topics include historical, economic, political, social and environmental aspects of road, rail, water, and air transportation. Examples will be global but will largely focus on the United States and the Inland Empire. (4 units)

**308. Advanced Geographic Information Systems**

Advanced study of the principles and theories involved when working with geographic information systems (GIS). Emphasis on the input, storage, manipulation, and analysis of geographic data. Four hours lecture and three hours laboratory. Materials fee required. Formerly GEOG 401. Prerequisite: GEOG 202 or consent of instructor. (5 units)

**311. The Dynamic Earth**

Tailored to students intending to teach grades K-8. A systematic survey of Earth's physical environment, including the spatial and temporal interrelationships among the Earth's atmosphere, oceans and land. Students will be introduced to selected methods and tools of scientific inquiry and analysis used in the earth and space sciences. May not be counted towards fulfillment of requirements in the geography major or minor. Four hours lecture and three hours laboratory. Prerequisites: a college-level chemistry course and a college-level physics course, or consent of instructor. (5 units)

**312. Geography of the Developing World**

Geographic exploration of the developing regions of the world, including economic, political, social, and cultural issues. Emphasis will be on comparative analysis and spatial distribution. (4 units)

**313. Geography of the Developed World**

Geographic exploration of the developed regions of the world, including economic, political, social, and cultural issues. Emphasis will be on comparative analysis and spatial distribution. (4 units)

**320. Geography of Social Issues**

Description and analysis of the causes of socially derived geographic variation in the United States and the world. Emphasis is on political, economic, gender and ethnic group characteristics and interactions. (4 units)

**322. United States and Mexico Border Issues**

Introduction to U.S.-Mexico border issues, including the social interactions and processes that distinguish the area. Analysis will focus on the characteristics of everyday life as shaped by political, economic, and cultural issues from inside and outside the region. (4 units)

**323. Area Study: North America**

Systematic examination of the physical and cultural geography of North America, stressing the relationships between the natural environment and human settlement and economic patterns. (4 units)

**341. Military Geography**

Examination of terrain, climate, and other physical geography factors that influence military operations. Formerly a topic under GEOG 390. (4 units)

**350. Conservation and Natural Resources**

Principles of resource utilization and ecology as they involve human development and politico-economic policy. (4 units)

**360. Weather and Climate**

An examination of atmospheric processes and the relationships between the atmosphere, hydrosphere, lithosphere and biosphere that influence local, regional and global patterns of weather and climate. Relationships between human activity, vegetation patterns, weather and climate will be discussed. Prerequisite: GEOG 103 or consent of instructor. (4 units)

**365. Climate Change**

An examination of past climates, modern climates and evidence for future climate change. Students are required to attend two weekend field trips. Prerequisite: GEOG 103 or GEOL 101. (4 units)

**370. Landscape Analysis**

Analysis of the earth as a mosaic of varying size habitat patches. Principles of geography, ecology, and biogeography are used to examine the characteristics and processes that work within and between patches. The application of landscape concepts to land use planning will be discussed, as will methods for determining spatial patterning. Formerly GEOG 460. Prerequisites: BIOL 100 or HSCI 120; and GEOG 103; or consent of instructor. (4 units)

**380. Population Geography**

Spatial distribution and redistribution of population; interrelationships between population and the environment, including techniques of analysis. (4 units)

**390. Selected Topics in Geography**

Examination of selected topics of current interest in geography. May be repeated for credit as topics change. (4 units)

**392. Selected Topics in Geography**

Examination of selected topics of current interest in geography. May be repeated for credit as topics change. (2 units)

**402. Geographic Information Systems Applications**

An examination of case studies in which geographic information systems (GISs) have been used to address environmental problems. Individual and/or group projects required. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: GEOG 202 or consent of instructor. (5 units)

**403. Advanced Map Design**

Map compilation, design, and production using modern digital techniques. Emphasis on the effective display of geographic data. Four hours lecture and three hours laboratory. Materials fee required. Formerly GEOG 303. Prerequisite: GEOG 202 or consent of instructor. (5 units)

**406. Digital Image Processing**

Geographic manipulation and interpretation of multispectral scanner data from satellites, radar and other digital image sources with the aid of computers. Prerequisite: GEOG 306 or consent of instructor. (4 units)

**415. Urban Planning and Land Development**

Comprehensive urban planning and land use controls. Emphasis on impact of urban development in North America. (4 units)

**420. Geography of Economic Activity**

Analysis of concepts of location, interaction and regionalization as they apply to economic activity. Special emphasis on economic growth and modernization. (4 units)

**440. Understanding the City**

A study of the physical and social attributes of the North American city. Emphasis is placed on urban planning and policy making. (4 units)

**470. Hydrology and Water Resources**

Basic principles of hydrology: relationships between atmospheric, surface and groundwater phenomena; streamflow and flood prediction; water supply and quality. Prerequisite: GEOG 103 or consent of instructor. (4 units)



#### 480. Geomorphology

Landforms and the processes that create them. Multi-day field trip required. Prerequisite: GEOG 103 or GEOL 101 or consent of instructor. (4 units)

#### 500. Senior Seminar

An assessment of academic progress, required of all geography and environmental studies majors, will be made by assembling an academic portfolio of completed coursework. Graded credit/no credit. Prerequisites: senior standing in geography or environmental studies and permission of Geography Department. (2 units)

#### 575. Internship in Geography

Supervised work in public or private organizations emphasizing practical applications of geographic concepts. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and department. (5 units)

#### 595. Independent Study

A total of eight units in GEOG 595 may be applied toward the major and graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (2-4 units)

**Graduate level courses can be found on Page 454.**

# GEOLOGY

## Department of Geological Sciences

Biological Science Building, Room 113A  
(909) 537-5336 <http://geology.csusb.edu/>

### Bachelor of Arts

Geology

### Bachelor of Science

Geology

General Geology Option

Environmental Geology Option

### Master of Science

Environmental Sciences

(Degree requirements can be found on Page 452.)

### Minor

Geology

**FACULTY:** Bonnie J. Brunkhorst, Louis A. Fernández,  
Joan E. Fryxell, W. Britt Leatham, Sally F. McGill, Erik Melchiorre,  
Alan L. Smith (Chair)

The study of geology is twofold: 1) geologists attempt to understand the physical and biological processes that affect and are recorded in rocks, minerals, and earth materials; and 2) geologists use that information to decipher the development of our planet. Much of the information geologists use is obtained by careful, systematic field work, which is an inherent requirement for geological studies.

Geology is a broad science that integrates with other classical sciences and disciplines such as chemistry, physics, biology, mathematics, computer science, and geography. Coursework in those disciplines, integrated within a geological framework, provides students with a broad, marketable understanding.

The B.S. degree is recommended for students planning to become professional geologists employed by environmental and geo-technical firms, governmental agencies, oil and mining companies and for those students planning to pursue a graduate degree in geology.

Both the B.S. and B.A. degrees are suitable for students planning a career in K-12 science teaching or environmental law. Students should be aware that additional science courses beyond the B.S. and B.A. are recommended to prepare for the CSET exam.

## B.A. IN GEOLOGY

### Requirements (92-95 units)

#### Total units required for graduation: 180

#### Requirements for the B.A. in Geology:

Lower-division requirements (37-40 units)

1. BIOL 200. Biology of the Cell (5)
2. A minimum of five units chosen from:  
CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)  
CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
3. GEOL 101. Introductory Geology (5)
4. GEOL 250. Historical Geology (5)
5. MATH 211. Basic Concepts of Calculus (4)
6. A minimum of 13 units chosen from Group A or B below:

#### Group A:

- PHYS 121. Basic Concepts of Physics I (5)  
PHYS 122. Basic Concepts of Physics II (4)  
PHYS 123. Basic Concepts of Physics III (4)

#### Group B:

- PHYS 221. General Physics I (5)  
PHYS 222. General Physics II (5)  
PHYS 223. General Physics III (5)

Upper-division requirements (55 units)

1. GEOL 301. Introduction to Geologic Mapping (4)
2. Two units chosen from:  
GEOL 307. Service Learning in the Earth Sciences (1-2)  
GEOL 310. Regional Field Geology (2)  
GEOL 395. Directed Studies (2-4)  
GEOL 399. Undergraduate Geological Research (2-4)  
GEOL 595. Independent Study (2-6)
3. GEOL 312. Geology of California (4)
4. GEOL 320. Mineralogy and Crystallography (5)
5. GEOL 321. Optical Mineralogy (3)
6. GEOL 322. Introduction to Geochemistry (4)
7. GEOL 325. Igneous and Metamorphic Petrology (5)
8. GEOL 330. Sedimentary Petrology (5)
9. GEOL 340. Stratigraphy (5)
10. GEOL 350. Paleontology (5)
11. GEOL 360. Structural Geology (5)
12. GEOL 370. Tectonics (4)
13. GEOL 399. Undergraduate Geologic Research (2)
14. GEOL 590. Senior Seminar (2)

## B.S. IN GEOLOGY

### Requirements (119 units)

#### Total units required for graduation: 183-187

#### Requirements for the B.S. in Geology:

Lower-division requirements (50 units)

1. Five units chosen from:  
BIOL 100. Topics in Biology (5)  
BIOL 200. Biology of the Cell (5)
2. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
3. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
4. GEOL 101. Introductory Geology (5)
5. GEOL 250. Historical Geology (5)
6. MATH 211. Basic Concepts of Calculus (4)
7. MATH 212. Calculus II (4)
8. PHYS 221. General Physics I (5)
9. PHYS 222. General Physics II (5)
10. PHYS 223. General Physics III (5)

Upper-division requirements (69 units)

1. GEOL 301. Introduction to Geologic Mapping (4)
2. GEOL 320. Mineralogy and Crystallography (5)
3. GEOL 321. Optical Mineralogy (3)
4. GEOL 322. Introduction to Geochemistry (4)
5. GEOL 325. Igneous and Metamorphic Petrology (5)
6. GEOL 330. Sedimentary Petrology (5)
7. GEOL 340. Stratigraphy (5)
8. GEOL 360. Structural Geology (5)
9. Eight units chosen from:  
GEOL 390. Field Camp (8)  
GEOL 391. Advanced Geologic Mapping (2-6)
10. GEOL 399. Undergraduate Geologic Research (2)
11. GEOL 590. Senior Seminar (2)

#### General Geology Option (21 units)

1. GEOL 312. Geology of California (4)
2. GEOL 350. Paleontology (5)
3. GEOL 370. Tectonics (4)

4. Four units chosen from:
  - GEO 307. Service Learning in the Earth Sciences (1-2)
  - GEO 310. Regional Field Geology (2)
  - GEO 395. Directed Studies (2)
  - GEO 399. Undergraduate Geologic Research (2-4)
  - GEO 575. Internship in Geology (1-5)
  - GEO 595. Independent Study (2-6)
5. A minimum of four units chosen from:
  - GEO 202. Introduction to Geographic Information Systems and Mapping (5)
  - GEO 470. Hydrology and Water Resources (4)
  - GEO 480. Geomorphology (4)
  - GEO 375. Groundwater Hydrology (4)
  - GEO 430. Engineering Geology (5)
  - GEO 460. Topics in Applied Geology (4)
  - GEO 540. Advanced Topics in Geology (4)
  - MATH 262. Applied Statistics (4)

#### Environmental Geology Option (21 units)

1. GEO 470. Hydrology and Water Resources (4)
2. GEO 375. Groundwater Hydrology (4)
3. GEO 376. Field Methods in Hydrology (4)
4. GEO 430. Engineering Geology (5)
5. A minimum of four units chosen from:
  - CHEM 206. Organic Chemistry (5)
  - GEO 202. Introduction to Geographic Information Systems and Mapping (5)
  - GEO 480. Geomorphology (4)
  - GEO 312. Geology of California (4)
  - GEO 540. Advanced Topics in Geology (4)
  - GEO 575. Internship in Geology (1-5)
  - HSCI 557. Hazardous Material Control (4)
  - MATH 262. Applied Statistics (4)

### MINOR IN GEOLOGY

#### Requirements (35 units)

#### Requirements for a minor in Geology:

##### Lower-division requirements (20 units)

1. GEO 101. Introductory Geology (5)
2. GEO 250. Historical Geology (5)
3. A minimum of five units chosen from:
  - CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
  - CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
4. A minimum of five units chosen from:
  - PHYS 121. Basic Concepts of Physics I (5)
  - PHYS 221. General Physics I (5)

##### Upper-division requirements (15 units)

1. A minimum of 15 units of upper-division geology courses. These units may not include GEO 309.

### DEPARTMENTAL HONORS

A graduating senior will be awarded departmental honors in geology after meeting the following requirements:

1. A grade-point average of at least 3.5 in all geology courses, with a minimum of five geology courses taken at this university;
2. Satisfactory completion of GEO 595. Independent Study;
3. Presentation of the results of the independent study to the department or at a professional meeting.

### COURSE OFFERINGS IN GEOLOGY (GEOL)

The quarters listed for course offerings are tentative.

#### Lower Division

#### 101. Introductory Geology (FWS)

An introduction to the study of the earth, particularly the structure, composition, distribution and modification of earth materials, and processes that shape the surface of the earth. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (GE=B3) (GEO 101=CAN GEO 2) (5 units)

#### 102. Introductory Geology Laboratory (FWS)

Designed for students who have taken an introductory geology lecture elsewhere. Hands-on introduction to the structure, composition, distribution and modification of earth materials, and processes that shape the surface of the earth. Three hours laboratory. Materials fee required. Prerequisites: satisfactory score on the Entry Level Mathematics examination, and the transferable equivalent to the Introductory Geology lecture, and permission of department. (1 unit)

#### 205. Volcanic Hazards, Surveillance and Prediction

An introduction to the study of volcanic eruptions; assessment of their hazards; methods used in their surveillance and in the prediction of eruptions. Effects of volcanic eruptions on humans, buildings, economic activities, and world climate. Two hours lecture. (GE=B4) (2 units)

#### 210. Earthquakes: Science and Public Policy (FWS)

An introduction to the scientific study of earthquakes, the assessment of seismic hazards, earthquake engineering, and the physical and sociological effects of earthquakes. Various public policies aimed at mitigating earthquake hazards and attempts at earthquake prediction will also be examined. (GE=B4) (2 units)

#### 250. Historical Geology (S)

Study of the origin and evolution of the earth and its life forms as interpreted from the rock and fossil record. Four hours lecture and three hours laboratory. Materials fee required. Overnight field trips may be required. (GEO 250=CAN GEO 4) (5 units)

#### 295. Special Projects in Geology (FWS)

Individual investigation, research, study or survey of selected problems. Prerequisite: consent of instructor. (1-2 units)

#### Upper Division

#### 301. Introduction to Geologic Mapping (F)

Field identification of igneous, sedimentary, and metamorphic rock units, sample collection, making rock descriptions, use of Brunton compass, pace and compass technique, topographic map reading, location determination, measuring geological features (e.g., strike and dip of bedding, lineation and foliation in metamorphic rocks), plotting geologic features on a topographic map, geologic symbol and notation conventions, topographic profile construction, geologic cross section construction and interpretation, geologic field note taking, and preparing geologic reports. Overnight field trips may be required. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: GEO 101 or GEO 103. (4 units)

**307. Service Learning in the Earth Sciences (FWS)**

Supervised activities in geology or geological education providing service to campus or community constituents. Minimum of 30 hours required per unit of credit. May be repeated for credit. Graded credit/no credit. Prerequisite: consent of instructor. (1-2 units)

**309. Earth: The Blue Planet (FWS)**

Tailored for students intending to teach grades K-8. Planet Earth studied as a whole, comprising many separate but interacting systems. Earth's place and role in the solar system; what the planet is made of and how it is changing; surface processes that shape its exterior; influences on its habitable envelope. Four hours lecture and three hours laboratory. Materials fee required. Prerequisites: a college-level chemistry course and a college-level physics course, or consent of instructor. (5 units)

**310. Regional Field Geology**

Investigation of geologic features and their interpretation based on field observations of selected region or locality. Overnight field trips may be required. May be repeated for credit as topics change. Prerequisite: GEOL 101 or consent of instructor. (2 units)

**312. Geology of California (W)**

Interpretation of the geological features and evolution of California. Four hours lecture. Overnight field trips may be required. Prerequisite: GEOL 101. (4 units)

**320. Mineralogy and Crystallography (F)**

Introduction to crystal symmetry, crystallography, crystal chemistry, mineral classification, mineral genesis, physical and chemical properties of minerals, and laboratory identification of important ore and rock-forming minerals. Three hours lecture and six hours laboratory. Materials fee required. Field trips may be required. Prerequisite: GEOL 101. Prerequisite or corequisite: CHEM 205 or 215. (5 units)

**321. Optical Mineralogy (W)**

Theory and application of petrographic microscopy for the analysis and identification of minerals. One hour lecture and six hours laboratory. Materials fee required. Formerly GEOL 315. Prerequisite: CHEM 205 or 215. Recommended: GEOL 320. (3 units)

**322. Introduction to Geochemistry (W)**

Distribution, migration, and reactions of chemical elements within the earth through space and time. Recommended as an elective for students of chemistry, environmental studies, and life sciences. Four hours lecture. Formerly GEOL 300. Prerequisite: CHEM 205 or 215. Recommended: GEOL 320. (4 units)

**325. Igneous and Metamorphic Petrology (S)**

Description and genesis of igneous and metamorphic rocks, their mineralogic and chemical composition, internal structure, and mode of occurrence. Three hours lecture and six hours laboratory. Materials fee required. Overnight field trips may be required. Prerequisite: GEOL 320 and 321. Prerequisite or corequisite: CHEM 216. (5 units)

**330. Sedimentary Petrology (W)**

Study of sedimentary processes, depositional environments, and diagenesis, based on the interpretation and classification of sedimentary rocks. Overnight field trips may be required. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: GEOL 101 or equivalent. (5 units)

**340. Stratigraphy (S)**

Principles of analysis, description, and interpretation of stratiform rock, including stratigraphic nomenclature, correlation, facies relationships, and paleoenvironmental reconstruction. Four hours lecture and three hours laboratory. Materials fee required. Overnight field trips may be required. Prerequisite: GEOL 330. (5 units)

**350. Paleontology (F)**

Concepts of paleobiology exemplified by systematic study of important fossil groups. Four hours lecture and three hours laboratory. Materials fee required. Overnight field trips may be required. Prerequisite: an introductory geology or biology course. (5 units)

**360. Structural Geology (W)**

Mechanics and characteristics of rock deformation and analytical techniques for the solution of structural relationships. Four hours lecture and three hours laboratory. Materials fee required. Overnight field trips may be required. Prerequisites: GEOL 101 and PHYS 121 or 221. (5 units)

**370. Tectonics (S)**

Interpretation of the geological evidence for plate tectonics; the mechanisms that control it; the structures it produces; its control on igneous, metamorphic, sedimentologic, and biological processes; and plate interactions. Four hours lecture. Prerequisites: GEOL 325, 330 and 360. (4 units)

**375. Groundwater Hydrology**

Occurrence, distribution, and movement of groundwater; properties of aquifers; principles of groundwater flow; effects of well extraction; regional groundwater flow; water quality and contamination. Four hours lecture. Prerequisites: GEOG 470, GEOL 101 and MATH 212. Recommended: MATH 251. (4 units)

**376. Field Methods in Hydrology**

Measurement methods and analysis associated with the evaluation of water movement in the field. Sampling methods and use of data loggers and other sampling equipment are emphasized. Two hours lecture and six hours laboratory. Materials fee required. Field trips are required. Prerequisite: GEOL 375. (4 units)

**390. Field Camp**

Geological field work at selected areas in the western United States. Techniques of geologic mapping and structural, petrologic, stratigraphic, and paleontologic interpretation will be used to interpret the geological history and significance of those areas through reports, maps, cross-sections, and diagrams. Materials fee required. Prerequisites: GEOL 301, 340, 360 and consent of instructor. (8 units)

**391. Advanced Geologic Mapping (FWS)**

Techniques of geologic mapping as applied to selected disciplines within the broad field of geosciences. May be repeated for credit with departmental consent. A total of eight units may be applied towards the degree. Prerequisites: GEOL 301 and consent of instructor. (2-6 units)

**395. Directed Studies (FWS)**

Individual laboratory, field or library study conducted under the direction of a faculty member. May be repeated for credit, a total of six units in GEOL 395 may be applied toward graduation. Prerequisites: consent of the department and approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-4 units)



**399. Undergraduate Geological Research (FWS)**

Individual scholarly research project conducted under the direction of a faculty member. Project will include a written description of research question, research design, methods used, data collected, and interpretation of results will be presented. Oral presentation as well is encouraged. May be repeated for credit with department consent. A total of six units may be applied towards graduation. Prerequisites: consent of instructor and department chair prior to beginning of quarter in which work will be done. (2-4 units)

**430. Engineering Geology**

A survey of issues and techniques pertinent to geology as it applies to engineering of structures. Soil and rock mechanics; mass wasting processes; water-related issues; land subsidence; seismic hazards. Field trips are required. Three hours lecture and six hours laboratory, some of which will be conducted in the field. Materials fee required. Prerequisite: GEOL 360. (5 units)

**460. Topics in Applied Geology**

A selected topic of applied geology such as engineering geology, groundwater, environmental geology, resource management, well-log analysis, and geological hazards. Four hours lecture. May be repeated for credit as topics change. Prerequisite: GEOL 360 or consent of instructor. (4 units)

**510. Scientific Issues in Surface and Groundwater Management**

Overview of groundwater concepts and issues, including groundwater origins and behavior; response to wells; water chemistry; water quality and contamination; development and management. Emphasis is given to applications and case studies. This course does not satisfy requirements for the B.A. and B.S. degrees in geology. Four hours lecture. (4 units)

**520. Readings in Classical Geology (FWS)**

Directed readings of important geologic literature that have shaped our understanding of the earth and its history. May be repeated for credit. Prerequisite: GEOL 250. (2 units)

**530. Scanning Electron Microscopy**

Theory and techniques of scanning electron microscopy. Lectures on theory of operation of the scanning electron microscope and specimen preparation. Laboratory includes hands-on training in the use of the scanning electron microscope. Laboratory projects will teach technical aspects of specimen preparation and microscope use. Three hours lecture and six hours laboratory. Materials fee required. (Also offered as BIOL 530. Students may not receive credit for both.) Prerequisites: senior standing and consent of instructor. (5 units)

**531. Transmission Electron Microscopy**

Theory and techniques of transmission electron microscopy. Lectures on theory of operation of the transmission electron microscope and specimen preparation. Laboratory includes hands-on training in the use of the transmission electron microscope. Laboratory projects will teach technical aspects of specimen preparation and use. Three hours lecture and six hours laboratory. Materials fee required. (Also offered as BIOL 531. Students may not receive credit for both.) Prerequisites: senior standing and consent of instructor. (5 units)

**532. Techniques in Ultrastructure Analysis**

Specialized techniques in ultrastructural analysis using either the scanning or transmission electron microscope. Topics will vary, but will include specialized techniques in specimen preparation, alternative image detectors, and image analysis. Theory of the analysis and training in the technical aspects will be covered. Three hours lecture and six hours laboratory. Materials fee required. (Also offered as BIOL 532. Students may not receive credit for both.) Prerequisites: BIOL 530 or 531 or GEOL 530 or 531 and consent of instructor. (5 units)

**540. Advanced Topics in Geology**

An advanced geologic topic, such as geophysics, carbonate petrology, seismic stratigraphy, biostratigraphy, advanced igneous and metamorphic petrology, volcanic processes, geochemistry, paleoecology, Quaternary geology, geostatistics, micropaleontology, vertebrate paleontology, paleobotany, marine geology, and rock mechanics. Overnight field trips may be required. May be repeated for credit as topics change. Prerequisites: consent of instructor. (4 units)

**545. Laboratory for Advanced Topics in Geology**

Laboratory work to accompany some topics offered in GEOL 540. Three hours laboratory per unit enrolled. Materials fee required. May be repeated for credit as topics change. Overnight field trips may be required. Prerequisite: consent of instructor. (1-2 units)

**575. Internship in Geology (FWS)**

Work experience off and on campus in geologically related work. Supervised by a member of Geological Sciences faculty. May be repeated for credit with department consent. A total of four units may be applied towards graduation. Graded credit/no credit. Prerequisite: consent of instructor. (1-5 units)

**590. Senior Seminar (S)**

Assessment of student learning through a standardized test and through written and oral presentation of a research project, which may have been initiated as part of another course. This course should be taken in the spring quarter immediately prior to graduation. Prerequisite or corequisite: GEOL 395, 399 or 595. (2 units)

**595. Independent Study (FWS)**

Laboratory, field or library research conducted under the direction of a faculty member. A total of six units in GEOL 595 may be applied towards the major in geology. Prerequisites: a minimum overall grade point average of 3.0, consent of the College of Natural Sciences, and approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-6 units)

Graduate level courses can be found on Page 455.

# GERMAN

## Department of World Languages and Literatures

University Hall, Room 314  
(909) 537-5847 <http://flan.csusb.edu/>

### Minor

German

### Certificate Program

German/English Translators

**COORDINATOR:** Ruth Burke

The German program, open to all interested students, offers courses that develop language capabilities and an appreciation and comprehension of the literature and culture of Germany, Austria and Switzerland. Information on the special interdisciplinary major in German area studies may be obtained from the Department of World Languages and Literatures.

Courses taught in English are listed under Foreign Languages and Literatures (Page 185) and Humanities (Page 230). Courses listed below are offered both to fulfill general education requirements and to support other major programs.

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## MINOR IN GERMAN

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### Requirements (24 units)

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#### Requirements for a minor in German:

1. Proficiency in German equal to GER 150. Intermediate German or equivalent.

**Note:** Entering students with previous training in German, and those who are native speakers, should contact the Department of World Languages and Literatures for information about advanced placement and credit by examination.

#### Lower-division requirements (12 units)

1. GER 212. Composition (4)
2. GER 214. Conversation (4)
3. GER 216. Introduction to Literary Texts (4)

#### Upper-division requirements (12 units)

1. GER 309. Advanced German Composition (4)
2. Eight units chosen from upper-division German courses.

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## CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. See Page 58 for additional certificate information.

## Certificate for German/English Translators

### Certificate requirements (36 units)

1. Proficiency in German equal to GER 150. Intermediate German or equivalent and completion of the following requirements with a grade point average of 2.7 ("B-") or better.

**Note:** Entering students with previous training in German, and those who are native speakers, should contact the Department of World Languages and Literatures for information about advanced placement and credit by examination.

#### Lower-division requirements (12 units)

1. GER 212. Composition (4)
2. GER 214. Conversation (4)
3. GER 216. Introduction to Literary Texts (4)

#### Upper-division requirements (24 units)

1. ENG 306. Expository Writing (4)
2. GER 309. Advanced German Composition (4)
3. GER 311. Survey of German Literature (4)
4. GER 312. Business German (4)
5. GER 313. Technical and Scientific Translation (4)
6. HUM 460. Cultural Studies (4) (when the topic pertains to Germany)

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## COURSE OFFERINGS IN

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### GERMAN (GER)

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#### Lower Division

Courses at the 101, 102 and 150 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours.

#### 101. College German I

Fundamentals of pronunciation, structure and German culture designed to develop the ability to use and understand basic spoken German. (GER 101+102+150=**CAN** GERM SEQ A) (4 units)

#### 102. College German II

Further study of the fundamentals of pronunciation, structure and German culture designed to develop the ability to use and understand basic spoken German. Continuation of GER 101. (GER 101+102+150=**CAN** GERM SEQ A) (**GE**=C3) (4 units)

#### 150. Intermediate German

Emphasis on oral and written competency at the intermediate level in a cultural context. Prerequisite: two years of high school German or equivalent. (GER 101+102+150=**CAN** GERM SEQ A) (**GE**=C3) (4 units)

#### 212. Composition

Comprehensive review of the principles of German grammar, emphasizing their application to composition. Prerequisite: GER 150 or equivalent. (**GE**=C3) (4 units)

#### 214. Conversation

Practice of oral German stressing the discussion of current topics, panel discussions, debates, short talks and skits. Prerequisite: GER 150 or equivalent. (**GE**=C3) (4 units)

#### 216. Introduction to Literary Texts

Techniques of literary study and analysis. Vocabulary development. Prerequisite: GER 150 or equivalent. (**GE**=C3) (4 units)

### 218. Culture

Introduction to the culture and traditions of the German-speaking countries (principally Germany, Austria and Switzerland) as reflected in the arts and other social institutions. Course taught in German. (4 units)

### 290. German Literature in English

Introduction to German literature read in English translation. (GE=C3) (4 units)

### Upper Division

Ordinarily, upper-division courses are conducted in German. Students enrolled in these courses will be evaluated on appropriate progress in both the command of the language and the subject matter.

### 308. Readings in German Literature

Selected literary genre or writer. May be repeated for credit as topics change. Prerequisite: one of the following: GER 212, 214, 216 or consent of instructor. (4 units)

### 309. Advanced German Composition

Practice in composition and short essay writing with emphasis on the development of good writing style and expressive vocabulary. Practical application in writing. Prerequisite: GER 212 or 216 or consent of instructor. (4 units)

### 310. Advanced German Conversation

Advanced practice of oral German stressing the discussion of topics based in part on current newspapers and periodicals. Prerequisite: GER 214 or consent of instructor. (4 units)

### 311. Survey of German Literature

Survey course designed to introduce the student to the major literary movements and representative writers of German speaking cultures. Prerequisites: GER 212, 214, 216 or consent of instructor. (4 units)

### 312. Business German

Practice in writing German business letters and translation from German to English of materials useful in business, politics and tourism. Prerequisite: GER 212 or 216 or consent of instructor. (4 units)

### 313. Technical and Scientific Translation

Translation from German to English of technical and scientific material. Prerequisite: GER 212 or 216 or consent of instructor. (4 units)

### 399. Community Service Project

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of department. (1-2 units)

# HEALTH CARE MANAGEMENT

## Department of Health Science and Human Ecology

Jack Brown Hall, Room 263  
(909) 537-5339 <http://health.csusb.edu/>

## Bachelor of Science in Health Science

Concentration in Health Care Management

**Faculty:** Ted Coleman (Chair), Daniel Fahey, Chris Lindfeldt

Health care management is concerned with the planning, organization, financing, delivery, and evaluation of public and personal health services. The health services administration concentration prepares students for careers in health services delivery organizations such as hospitals, clinics, managed care organizations, long-term care facilities, and medical offices. Graduates may also enter careers in governmental health care as local and state departments of health, the U.S. Public Health Service, and international health organizations. Management and staff opportunities for the trained baccalaureate include consulting firms, durable medical equipment, pharmaceutical companies, and healthcare information systems vendors.

The B.S. in Health Science with a concentration in Health Care Management may be combined with a minor in business.

For further program information, course descriptions, and requirements for the B.S. in Health Science, see the Department of Health Science and Human Ecology on Page 204.

### Health Care Management Concentration

#### Core Courses

1. HSCI 120. Health and Society: An Ecological Approach (5)
2. HSCI 315. Statistics for the Health Sciences (4)
3. HSCI 352. Principles of Environmental Health (4)
4. Four units chosen from:
  - HSCI 355. Health, Consumer and Environmental Law (4)
  - HSCI 478. Environmental Health Management (4)
5. HSCI 367. Human Disease Mechanisms (4)
6. HSCI 451. Principles of Epidemiology (4)
7. HSCI 470. Health Behavior (4)

#### Concentration Courses

1. ACCT 211. Introductory Accounting I (4)
2. ACCT 212. Introductory Accounting II (4)
3. ECON 200. Principles of Microeconomics (4)
4. HSCI 271. Introduction to Public Health (4)
5. HSCI 273. Software Applications in the Health Sciences (3)
6. HSCI 415. Medical Care Organizations (4)
7. HSCI 423. Health and Wellness of Older Adults (4)
8. HSCI 436. Human Resource Management in Ambulatory Care/Group Practice Management (4)
9. Eight units chosen from:
  - HSCI 438. Financial Management of Ambulatory Care/Group Practice Management (4)
  - HSCI 452. Special Topics in Health Science and Human Ecology (4)
  - HSCI 510. Hospital Administration (4)
  - HSCI 511. Organization and Management of Long-Term Care Facilities (4)
  - HSCI 513. Managed Care Systems (4)
10. HSCI 460. Strategic Planning and Marketing in the Health Care System (4)
11. HSCI 489. Pre-Field Experience (2)
12. HSCI 490. Health Service Administration (4)
13. HSCI 493. Field Experience Seminar (1)

14. HSCI 495A. Field Experience (5)
15. HSCI 498. Undergraduate Research Methodology in Health Science (5)
16. MGMT 302. Management and Organizational Behavior (4)
17. Twelve units of health science electives or other electives approved by an advisor.



# HEALTH EDUCATION

## Department of Health Science and Human Ecology

Jack Brown Hall, Room 263  
(909) 537-5339 <http://health.csusb.edu/>

### Bachelor of Science in Health Science

Concentrations in  
Public Health Education  
School Health

**Faculty:** Kim Clark, Ted Coleman (Chair), Marsha Greer

The School Health and the Public Health Education concentrations prepare graduates to be eligible to take the Certificate Health Education Specialist (CHES) national examination administered by the National Commission for Health Education Credentialing. In addition, the school health concentration contains all content areas required for a single subject teaching credential preparation program in the health sciences. For further program information, course descriptions, and requirements for the B.S. in Health Science, see the Department of Health Science and Human Ecology on Page 204.

#### Public Health Education Concentration and School Health Concentration

Lower-division requirement (5 units)

1. HSCI 120. Health and Society: An Ecological Approach (5)

Upper-division requirements (24 units)

1. HSCI 315. Statistics for the Health Sciences (4)
2. HSCI 352. Principles of Environmental Health (4)
3. Four units chosen from:  
HSCI 355. Health, Consumer and Environmental Law (4)  
HSCI 478. Environmental Health Management (4) required for Environmental Health Science concentration
4. HSCI 367. Human Disease Mechanisms (4)
5. HSCI 451. Principles of Epidemiology (4)
6. HSCI 470. Health Behavior (4)

Concentration Courses

#### Public Health Education Concentration (77 units)

1. BIOL 220. Principles of Microbiology (5)
2. BIOL 223. Human Physiology and Anatomy I (5)
3. BIOL 224. Human Physiology and Anatomy II (5)
4. CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
5. HSCI 271. Introduction to Public Health (4)
6. HSCI 273. Software Applications in the Health Sciences (3)
7. HSCI 301. Principles of Health Education for Health Educators (4)
8. HSCI 310. Health and Human Sexuality (4)
9. HSCI 342. Nutrition for Your Health (4)
10. HSCI 359. International Perspectives on Health (4)
11. HSCI 364. Drug and Alcohol Use and Abuse (4)
12. HSCI 471. Health Promotion: Program Planning and Implementation (4)
13. HSCI 472. Program Evaluation (4)
14. HSCI 473. Instructional Methods in Health Education (4)
15. HSCI 489. Pre-Field Experience (2)
16. HSCI 490. Health Service Administration (4)
17. HSCI 493. Field Experience Seminar (1)
18. HSCI 495B. Field Experience (6)
19. HSCI 498. Undergraduate Research Methodology in Health Science (5)

#### School Health Concentration (77 units)

1. BIOL 220. Principles of Microbiology (5)
2. BIOL 223. Human Physiology and Anatomy I (5)
3. BIOL 224. Human Physiology and Anatomy II (5)
4. CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
5. HSCI 271. Introduction to Public Health (4)
6. HSCI 273. Software Applications in the Health Sciences (3)
7. HSCI 301. Principles of Health Education for Health Educators (4)
8. HSCI 310. Health and Human Sexuality (4)
9. HSCI 342. Nutrition for Your Health (4)
10. HSCI 364. Drug and Alcohol Use and Abuse (4)
11. HSCI 432. School Health Administration and Planning (4)
12. HSCI 433. School Health Education (4)
13. HSCI 471. Health Promotion: Program Planning and Implementation (4)
14. HSCI 472. Program Evaluation (4)
15. HSCI 473. Instructional Methods in Health Education (4)
16. HSCI 489. Pre-Field Experience (2)
17. HSCI 493. Field Experience Seminar (1)
18. HSCI 495B. Field Experience (6)
19. HSCI 498. Undergraduate Research Methodology in Health Science (5)

# HEALTH SCIENCE

*Accredited by the National Environmental Health Science and Protection Accreditation Council; California Department of Health Services-Environmental Health Specialist Registration Committee (Environmental Health Science Option)*

## Department of Health Science and Human Ecology

Jack Brown Hall, Room 263  
(909) 537-5339 <http://health.csusb.edu/>

### Bachelor of Science

Health Science  
with concentrations in:  
Ambulatory Care/Group Practice Management  
Environmental Health Science  
Health Care Management  
Public Health Education  
School Health  
Nutrition and Food Sciences (see Page 286)

### Teaching Credential Preparation Program

Health Science

### Minor

Health Science  
Nutrition and Food Sciences (see Page 286)

### Master of Arts

Health Education Concentration, M.A. in Education  
(Degree requirements can be found on Page 401.)

### Master of Public Health

(Degree requirements can be found on Page 494.)

### Master of Science

Health Services Administration  
(Degree requirements can be found on Page 456.)

### Certificate Programs

Ambulatory Care/Group Practice Management  
Community Mental Health  
Gerontology (See Page 319)  
Health Care Management

### Certification

Audiometrist Certification

**FACULTY:** Dorothy Chen-Maynard, Kim Clark, Ted Coleman (Chair), Daniel Fahey, Marsha Greer, Joe Hughes, Robert LaChausse, Chris Lindfelt, Lal Mian, Robert Phalen

The Department of Health Science and Human Ecology provides courses of instruction for personal growth, community service, intellectual stimulation, and professional career opportunities in the public health and environmental fields. The department emphasizes an ecological approach to health and attempts to provide students with the tools necessary to understand factors contributing to the promotion of general health and well-being and the prevention of illness.

The Department of Health Science and Human Ecology offers a Bachelor of Science in Health Science and a Bachelor of Science in Nutrition and Food Sciences. Students seeking a major in Nutrition and Food Sciences should See Page 286 of this catalog for the description of this degree. In addition the department offers a Master of Science in Health Services Administration, see Page 456 and a Masters in Public Health, see Page 494. Within the M.A. in Education, students have the opportunity to take the option in Health Education. See Page 401 for this option. The department also offers certificates in several specialized areas.

A Bachelor of Science in Health Science with a given concentration is appropriate for students preparing to become health professionals, those who want to be health educators or health administrators, or those desiring to work in environmental protection agencies, private businesses, industrial hygiene, and safety. The program also is designed to provide a career ladder opportunity for persons currently engaged in public health and environmental occupations or preparing for graduate work in medicine, public health, and social or natural sciences.

The department offers a blend of traditional and modern approaches to education and career development in the health science field. It encourages multidisciplinary orientation, community interaction, and a social outlook, and provides appropriate instruction in the health-related areas of science. In their senior year, students intern in community agencies such as health departments, hospitals, industrial plants, environmental improvement agencies, and consumer affairs offices, thus combining theory and practice.

The Environmental Health Science Concentration is the appropriate choice for students who want to become health inspectors (i.e., Registered Environmental Health Specialists), industrial hygienists, or hazardous waste control experts. For those who plan on becoming Registered Environmental Health Specialists, this concentration is approved by the Environmental Specialist Registration Committee of the California State Department of Health Services. Students who are certified by the environmental health coordinator will have met the academic and experience requirements for admittance to the State Environmental Health Specialist Registration Examination.

The School Health and the Public Health Education concentrations prepare graduates to be eligible to take the Certified Health Education Specialist (CHES) national examination administered by the National Commission for Health Education Credentialing. In addition, the school health concentration contains all content areas required for a single subject teaching credential preparation program in the health sciences.

Pre-professional students of medicine, dentistry, veterinary medicine, or other science-related fields seeking a major in health science should see Page 63 and consult with a department advisor.

Students interested in fields such as health or environmental law, clinical chemistry, business, health physics, or any other academic discipline should complete the minimum requirements of the major and select appropriate electives in consultation with a department advisor.

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## B.S. IN HEALTH SCIENCE

### Requirements (105-116 units)

### Total units required for graduation: 180-187

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### Requirements for the B.S. in Health Science:

**Note:** Certain required courses also apply in the university's general education program (See Page 66).

Lower-division requirement (5 units)

1. HSCI 120. Health and Society: An Ecological Approach (5)

Upper-division requirements (24 units)

1. HSCI 315. Statistics for the Health Sciences (4)
2. HSCI 352. Principles of Environmental Health (4)
3. Four units chosen from:
  - HSCI 355. Health, Consumer and Environmental Law (4)
  - HSCI 478. Environmental Health Management (4) required for Environmental Health Science concentration
4. HSCI 367. Human Disease Mechanisms (4)
5. HSCI 451. Principles of Epidemiology (4)
6. HSCI 470. Health Behavior (4)

Concentration (76-89 units)

One of the following five concentrations is required for the major:

**Ambulatory Care/Group Practice Management Concentration (76 units)**

1. ACCT 211. Introductory Accounting I (4)
2. ACCT 212. Introductory Accounting II (4)
3. ECON 200. Principles of Microeconomics (4)
4. HSCI 271. Introduction to Public Health (4)
5. HSCI 273. Software Applications in the Health Sciences (3)
6. HSCI 415. Medical Care Organizations (4)
7. HSCI 436. Human Resources Management in Ambulatory Care/Group Practice Management (4)
8. HSCI 437. Information Systems as Applied to Ambulatory Care/Group Practice Management (4)
9. HSCI 438. Financial Management of Ambulatory Care/Group Practice Management (4)
10. HSCI 460. Strategic Planning and Marketing in the Health Care System (4)
11. HSCI 489. Pre-Field Experience (2)
12. HSCI 490. Health Service Administration (4)
13. HSCI 495A. Field Experience (5)
14. HSCI 512. Clinical Operations of Ambulatory Care/Group Practices (4)
15. HSCI 513. Managed Care Systems (4)
16. MGMT 302. Management and Organizational Behavior (4)
17. Fourteen units of health science electives or other electives approved by an advisor.

**Environmental Health Science Concentration (87-89 units)**

1. BIOL 200. Biology of the Cell (5)
2. BIOL 201. Biology of Organisms (5)
3. BIOL 202. Biology of Populations (5)
4. Five units chosen from:
  - BIOL 220. Principles of Microbiology (5)
  - BIOL 320. Microorganisms (6)
5. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
6. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
7. Organic chemistry, a minimum of five units, choose from Group A, B, or C:

**Group A**

- CHEM 206. Fundamentals of Chemistry II: Organic Chemistry (5)

**Group B**

- CHEM 221A. Organic Chemistry I: Lecture (3)  
 CHEM 221B. Organic Chemistry I: Laboratory (1)  
 CHEM 222A. Organic Chemistry II: Lecture (3)  
 CHEM 222B. Organic Chemistry II: Laboratory (1)  
 CHEM 223A. Organic Chemistry III: Lecture (3)  
 CHEM 223B. Organic Chemistry III: Laboratory (1)

**Group C**

- CHEM 321. Principles of Organic Chemistry I (5)  
 CHEM 322. Principles of Organic Chemistry II (5)  
 CHEM 323. Principles of Organic Chemistry III (5)
8. HSCI 380. Toxicology (4)
  9. HSCI 401. Advanced Environmental Health (5)
  10. HSCI 402. Principles of Occupational Health (5)
  11. HSCI 403. Vector-borne Disease Control (5)
  12. HSCI 490. Health Service Administration (4)
  13. HSCI 496. Internship in Environmental Health (4)
  14. Four units chosen from:
    - MATH 192. Methods of Calculus (4)
    - MATH 211. Basic Concepts of Calculus (4)

15. A minimum of thirteen units, choose Group A or B below:

**Group A:**

- PHYS 121. Basic Concepts of Physics I (5)  
 PHYS 122. Basic Concepts of Physics II (4)  
 PHYS 123. Basic Concepts of Physics III (4)

**Group B:**

- PHYS 221. General Physics I (5)  
 PHYS 222. General Physics II (5)  
 PHYS 223. General Physics III (5)

16. Six units of health science electives chosen from:

- HSCI 322. Air Pollution (2)  
 HSCI 324. Radiological Health and Safety (2)  
 HSCI 354. Solid Waste Management (2)  
 HSCI 356. Housing and Institutions (2)  
 HSCI 358. Water Quality and Pollution Control (4)  
 HSCI 381. Occupational Safety (4)  
 HSCI 477. Environmental Health Engineering (4)  
 HSCI 499. Directed Reading (1-4)  
 HSCI 530. Food-Borne Illnesses and Their Prevention (4)  
 HSCI 531. Bioterrorism (4)  
 HSCI 557. Hazardous Material Control (4)  
 HSCI 558. Management of Water Quality (4)  
 HSCI 595. Independent Study (1-4)

**Health Care Management Concentration (76 units)**

1. ACCT 211. Introductory Accounting I (4)
2. ACCT 212. Introductory Accounting II (4)
3. ECON 200. Principles of Microeconomics (4)
4. HSCI 271. Introduction to Public Health (4)
5. HSCI 273. Software Applications in the Health Sciences (3)
6. HSCI 415. Medical Care Organizations (4)
7. HSCI 423. Health and Wellness of Older Adults (4)
8. HSCI 436. Human Resource Management in Ambulatory Care/Group Practice Management (4)
9. Eight units chosen from:
  - HSCI 438. Financial Management of Ambulatory Care/Group Practice Management (4)
  - HSCI 452. Special Topics in Health Science and Human Ecology (4)
  - HSCI 510. Hospital Administration (4)
  - HSCI 511. Organization and Management of Long-Term Care Facilities (4)
  - HSCI 513. Managed Care Systems (4)
10. HSCI 460. Strategic Planning and Marketing in the Health Care System (4)
11. HSCI 489. Pre-Field Experience (2)
12. HSCI 490. Health Service Administration (4)
13. HSCI 493. Field Experience Seminar (1)
14. HSCI 495A. Field Experience (5)
15. HSCI 498. Undergraduate Research Methodology in Health Science (5)
16. MGMT 302. Management and Organizational Behavior (4)
17. Twelve units of health science electives or other electives approved by an advisor.

**Public Health Education Concentration (77 units)**

1. BIOL 220. Principles of Microbiology (5)
2. BIOL 223. Human Physiology and Anatomy I (5)
3. BIOL 224. Human Physiology and Anatomy II (5)
4. CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
5. HSCI 271. Introduction to Public Health (4)
6. HSCI 273. Software Applications in the Health Sciences (3)
7. HSCI 301. Principles of Health Education for Health Educators (4)
8. HSCI 310. Health and Human Sexuality (4)
9. HSCI 342. Nutrition for Your Health (4)

10. HSCI 359. International Perspectives on Health (4)
11. HSCI 364. Drug and Alcohol Use and Abuse (4)
12. HSCI 471. Health Promotion: Program Planning and Implementation (4)
13. HSCI 472. Program Evaluation (4)
14. HSCI 473. Instructional Methods in Health Education (4)
15. HSCI 489. Pre-Field Experience (2)
16. HSCI 490. Health Service Administration (4)
17. HSCI 493. Field Experience Seminar (1)
18. HSCI 495B. Field Experience (6)
19. HSCI 498. Undergraduate Research Methodology in Health Science (5)

**School Health Concentration (77 units)**

1. BIOL 220. Principles of Microbiology (5)
2. BIOL 223. Human Physiology and Anatomy I (5)
3. BIOL 224. Human Physiology and Anatomy II (5)
4. CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
5. HSCI 271. Introduction to Public Health (4)
6. HSCI 273. Software Applications in the Health Sciences (3)
7. HSCI 301. Principles of Health Education for Health Educators (4)
8. HSCI 310. Health and Human Sexuality (4)
9. HSCI 342. Nutrition for Your Health (4)
10. HSCI 364. Drug and Alcohol Use and Abuse (4)
11. HSCI 432. School Health Administration and Planning (4)
12. HSCI 433. School Health Education (4)
13. HSCI 471. Health Promotion: Program Planning and Implementation (4)
14. HSCI 472. Program Evaluation (4)
15. HSCI 473. Instructional Methods in Health Education (4)
16. HSCI 489. Pre-Field Experience (2)
17. HSCI 493. Field Experience Seminar (1)
18. HSCI 495B. Field Experience (6)
19. HSCI 498. Undergraduate Research Methodology in Health Science (5)

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**TEACHING CREDENTIAL  
PREPARATION PROGRAM**

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The School Health Concentration is the appropriate choice for all students who want to teach health science in schools. It meets the requirements for secondary teaching level major in health science. Students wishing to be recommended for a single subject teaching credential in Health Science must complete the requirements for this concentration as well as certain prerequisites to the teacher education program. For information about the professional education component, admission to the teacher education program, or specific requirements for the single subject waiver program see Page 157 or contact the Credentials Office, CE-102.

For teachers needing to clear their credential, the following course meets the Single Subject Waiver Requirement for Health:

HSCI 540. School Health Programs and Practices

For teachers wishing to add Health Science as a Supplemental Authorization to their existing credential, the following coursework is required:

HSCI 310. Health and Human Sexuality  
HSCI 342. Nutrition for Your Health  
HSCI 364. Drug and Alcohol Use and Abuse

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**MINOR IN HEALTH SCIENCE****Requirements (31 units)**

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**Requirements for a minor in Health Science:**

Lower-division requirement (5 units)

1. HSCI 120. Health and Society: An Ecological Approach (5)

Upper-division requirements (26 units)

1. HSCI 352. Principles of Environmental Health (4)
2. HSCI 451. Principles of Epidemiology (4)
3. Eighteen units of upper-division health science courses chosen in consultation with an advisor.

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**DEPARTMENTAL HONORS**

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A graduating senior will be awarded departmental honors in health science after meeting the following requirements:

1. At least a 3.5 grade point average in all courses required for the major taken at California State University, San Bernardino;
2. At least a 3.0 ("B") grade point average overall;
3. An "A-" or better in HSCI 595. Independent Study (at least four units).

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**CERTIFICATE PROGRAMS**

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Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. See Page 58 for additional certificate information.

**Certificate in Ambulatory Care/Group Practice Management****Certificate requirements (36 units)**

1. ACCT 211. Introductory Accounting I (4)
2. HSCI 415. Medical Care Organizations (4)
3. HSCI 436. Human Resources Management in Ambulatory Care/Group Practice Management (4)
4. HSCI 437. Information Systems as Applied to Ambulatory Care/Group Practice Management (4)
5. HSCI 438. Financial Management in Ambulatory Care/Group Practice Management (4)
6. HSCI 460. Strategic Planning and Marketing in the Health Care System (4)
7. HSCI 512. Clinical Operations of Ambulatory Care/Group Practices (4)
8. HSCI 513. Managed Care Systems (4)
9. MGMT 302. Management and Organizational Behavior (4)

**Certificate in Community Mental Health****Certificate requirements (30 units)**

1. HSCI 271. Introduction to Public Health (4)
2. HSCI 421. Community Mental Health (4)
3. PSYC 387. Community Psychology (4)
4. PSYC 390. Abnormal Psychology (4)
5. Fourteen units of electives chosen from the following in consultation with an advisor:
  - HSCI 364. Drug and Alcohol Use and Abuse (4)
  - HSCI 399. Community Service Project (1-2)
  - HSCI 423. Health and Wellness of Older Adults (4)
  - HSCI 451. Principles of Epidemiology (4)
  - HSCI 470. Health Behavior (4)



- HSCI 495A. Field Experience (5)  
 PSYC 201. Developmental Psychology (4)  
 PSYC 315. Communication Processes (4)  
 PSYC 329. Psychology of Adulthood and Aging (4)  
 PSYC 333. Drugs and Behavior (4)  
 PSYC 351. Behavior Modification: Principles and Applications (4)  
 PSYC 384. Personality and Social Development (4)  
 PSYC 385. Personality (4)  
 PSYC 386. Introduction to Psychotherapy (4)  
 PSYC 391. Psychopathology of Childhood (4)  
 SOC 355. Medical Sociology (4)  
 SOC 356. Sociology of Mental Illness (4)

### Certificate in Gerontology

The Department of Health Science and Human Ecology participates in the interdisciplinary certificate in Gerontology. Details concerning this certificate are found under Sociology Certificate Programs, Page 319.

### Certificate in Health Care Management

#### Certificate requirements (32 units)

1. ACCT 211. Introductory Accounting I (4)
2. HSCI 120. Health and Society: An Ecological Approach (4)
3. HSCI 415. Medical Care Organizations (4)
4. HSCI 460. Strategic Planning and Marketing in the Health Care System (4)
5. HSCI 490. Health Service Administration (4)
6. Eight units chosen from:
  - HSCI 271. Introduction to Public Health (4)
  - HSCI 511. Organization and Management of Long-Term Care Facilities (4)
  - HSCI 512. Clinical Operations of Ambulatory Care/Group Practices (4)
  - HSCI 513. Management Care Systems (4)
7. MGMT 302. Management and Organizational Behavior (4)

## CERTIFICATION

### Audiometrist Certification

#### Certification requirements (4 units)

Offered through the College of Extended Learning, the following course leads to a certificate of registration as a school audiometrist issued by the California State Department of Health Services:

- HSCI 374. Basic Audiometry and Hearing Problems (4)

## COURSE OFFERINGS IN HEALTH SCIENCE (HSCI)

### Lower Division

#### 100. Concepts in Health

Course content is formulated for those planning a career in K-12 education, including: psychosocial health and family life; alcohol, tobacco and other drugs; nutrition; chronic and communicable disease; consumer health; and environmental health. Standards and guidelines for coordinated school health programs and comprehensive health education are introduced. This course does not include instructional methodology, and should not be taken by post-baccalaureate students to meet state standards for the clear credential. (2 units)

#### 120. Health and Society: An Ecological Approach

Nature and function of health in society through study of the fundamental concepts of living systems and their implication in the processes of health and illness in the human organism. Major health problems are analyzed to contribute to the student's understanding of his or her role as an individual and as a member of the community. Four hours lecture and three hours laboratory. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (GE=B2) (5 units)

#### 216. Reproductive Health

Provides an overview of reproductive health issues facing men and women today, including but not limited to: human reproductive anatomy; self-care and medical examinations; commonly occurring reproductive disorders; symptoms and treatment including fertility-related disorders; birth control methods; abortion; threats to health during pregnancy; access to quality health care. Formerly HSCI 335. (2 units)

#### 218. Stress Management

Examines the history of stress-related research, sources of stress in modern society, the body's response to stress, and recent advances in psycho-neuro-immunology. Also included is the exploration of a variety of stress control techniques applicable to both personal and professional settings. Formerly HSCI 305. (2 units)

#### 225. Introduction to The Dietetic Profession

An overview of the dietetic profession and careers in dietetics. Includes historical perspectives of the dietetic profession, professional organizations, ethics, future outlook of the profession, and traditional/nontraditional career options in nutrition and dietetics. (1 unit)

#### 244. Introduction to Culinary Arts

The basics of food preparation and culinary skills; students will learn about shopping, preparation and handling of food, food safety, and selection and use of kitchen equipment and tools. Provides students with basic food preparation and culinary techniques, appropriate for non-majors. One hour lecture and three hours laboratory. (2 units)

#### 245. Introduction to Food Science

Application of scientific principles to the study of food; role of carbohydrates, lipids and proteins in food; principles of food safety. Four hours lecture and three hours laboratory. Prerequisites: CHEM 205. (5 units)

#### 271. Introduction to Public Health

Introduction to health issues and needs in various types of communities, and to the concepts underlying public health efforts of public, private and voluntary organizations. Formerly HSCI 371. (4 units)

#### 273. Software Applications in the Health Sciences

Overview and application of a variety of software applications currently utilized in health science-related programs, including, but not limited to, assessment, planning, program implementation and management software; statistical packages; regional and national databases; and integrated applications. Formerly HSCI 373. Materials fee required. Two hours lecture and three hours laboratory. (3 units)

#### 295. Special Projects in Health Science

Individual investigation, research, study or survey of selected problems. Prerequisite: consent of department. (1-2 units)

**Upper Division****301. Principles of Health Education for Health Educators**

Foundations of the health education process. Role of a health educator in school, community, work and hospital settings, as well as consultant in health promotion activities. Course does not fulfill the state health education requirement. Prerequisite: HSCI 120 or consent of instructor. (4 units)

**303. AIDS and Society**

The HIV/AIDS epidemic continues to threaten the cultural, economic and political stability of affected populations. This course uses HIV/AIDS as an example for exploration of the local, national and world community's historical, current and future social and political response to this and similar health problems. (4 units)

**310. Health and Human Sexuality**

Relationship between health and human sexuality with a theme of prevention of disease, disorder and dysfunction through education. Prerequisite: HSCI 120 or consent of instructor. (4 units)

**315. Statistics for the Health Sciences**

Introduction to the analysis, interpretation and presentation of data acquired for health sciences and public health. Emphasis will be on application rather than theory. Four hours lecture. Prerequisite: HSCI 271 and 273 or consent of instructor. (4 units)

**322. Air Pollution**

Principles of air quality management, including health implications of polluted air, applicable fundamentals of meteorology, air quality regulations, and current concepts in air pollution control technology. Prerequisites: college-level courses in biology and chemistry. (2 units)

**324. Radiological Health and Safety**

Ionizing radiation and its effects on health. Methods of identification, evaluation, and control are emphasized. Prerequisites: college-level courses in biology, chemistry, and physics. (2 units)

**332. Health Education in the Elementary School**

Health education concepts and content applied specifically to grades K-6. Stresses communication and instruction in health education for the teacher/school nurse, emphasizing the uniqueness and personal nature of health; techniques of health education; recognition of health education and other aspects of normal health and diseases/disorders common in children. Conforms with the State Framework for Education in the Health Sciences. Prerequisite: HSCI 120 or consent of instructor. (4 units)

**342. Nutrition for Your Health**

Application of basic nutrition principles including functions of food and nutrients in health and disease prevention through the life cycle; the impact of food choices and lifestyle on health; discussion of current trends, fads and fallacies in nutrition. May not be counted towards fulfilling requirements in the major or minor in the Nutrition and Food Sciences program. (4 units)

**344. International Perspectives on Nutrition**

Study and comparison of the incidence and causes of malnutrition in developing and industrialized nations. Discussion of political, economic, ecological, and cultural factors influencing malnutrition. (4 units)

**345. Advanced Food Science**

Study of food processing technology including thermal processing, dehydration, heat removal, and osmotic preservation. Food product development and sensory evaluation of food. Four hours lecture and three hours laboratory. Prerequisites: CHEM 206 or equivalent and HSCI 245. (5 units)

**350. Principles of Nutrition**

Physiological and chemical roles of carbohydrates, lipids, proteins, vitamins, minerals, and water in the human body. Understanding of nutrition standards and relationship between foods and nutrients. Factors affecting absorption, utilization, and the need for nutrients. Formerly HSCI 362. Prerequisites: CHEM 207, BIOL 223 and 224, or consent of instructor. (4 units)

**352. Principles of Environmental Health**

Introduction to the effects of the physical, chemical, and biological environments and their impacts on human health and well-being. Emphasis is placed on the principles of assessment, evaluation, and control of environmental risks related to public health. Discussion topics include air, water, and solid waste pollution plus food protection, radiation, hazardous wastes, and environmental impacts. Prerequisites: college-level course in biology and HSCI 120. (4 units)

**354. Solid Waste Management**

Principles of solid waste management from generation and collection to disposal. Includes evaluation of methods of waste disposal and discussion of relevant legislation. The contribution of solid waste to air, water, and soil pollution. Prerequisites: HSCI 352, college-level coursework in biology and chemistry, or consent of instructor. (2 units)

**355. Health, Consumer and Environmental Law**

Health laws and regulations, basis for their enactment and impact on facilities and programs, e.g. hospitals, health planning. Impact of environmental law on public health and mechanisms involved in protecting health consumers. Legal basis of the health care system and related aspects. (4 units)

**356. Housing and Institutions**

Basic health principles and environmental quality considerations associated with housing and institutions (for example, health care, educational, penal). Relationship of housing quality to physical, socio-economic, and ethnic factors and their influence on health. (2 units)

**358. Water Quality and Pollution Control**

Major sources and control of water pollution. Includes discussion of water legislation, wastewater treatment, quality control criteria for safe drinking water, and their impact on aquatic life. Prerequisites: HSCI 352, college-level coursework in biology and chemistry, or consent of instructor. (4 units)

**359. International Perspectives on Health**

Study and comparison of patterns in personal and community health in developing and industrialized nations. Introduction to the impact of behavioral, ecological, economic, and governmental factors on health status and health care organization and delivery. Discussion of national, regional, and international health problems and programs. (4 units)

**361. Principles of Accident Prevention**

Ecological and medical aspects of accident prevention in residential, work, educational, medical, and recreational environments. Legal aspects and governmental organizations involved in accident prevention. (2 units)

**364. Drug and Alcohol Use and Abuse**

Analysis of factors influencing human use or abuse of drugs, alcohol and other substances and their effects on the health and well-being of the individual, family, and society. (4 units)

**365. Nutrition Throughout the Life Cycle**

Nutritional needs through the life cycle. Factors that affect cultural, ethnic and religious food preferences in individuals and groups. Prerequisite: HSCI 350. (4 units)

**367. Human Disease Mechanisms**

Ecological and medical aspects of human disease and the body's response to the disease process and the effects on normal function. Prerequisites: HSCI 120; and either BIOL 223 and 224 or BIOL 200, 201 and 202. (4 units)

**374. Basic Audiometry and Hearing Problems**

Examination of the anatomy and physiology of the auditory mechanism. Nature of the acoustic stimulus, hearing disorders, problems of the hard of hearing and pure-tone audiometry. This course leads to the certificate of registration as school audiometrist, granted by the California Department of Health Services upon successful completion. (4 units)

**378. Peer Education Training in Health Science**

Content and methods related to peer education in Health Science. Small group process, techniques in health counseling, accessing resources and referrals and the development of presentation skills will be emphasized. (4 units)

**379. Peer Education Supervision in Health Science**

Ongoing supervision for those students previously trained as peer educators in health science who are currently providing services to the CSUSB Peer Education Program. May be repeated once for credit. Graded credit/no credit. Prerequisite: HSCI 378. (2 units)

**380. Toxicology**

Principles of chemical toxicity and relationship to public health, including principles, intoxication, disease, dose-response measurement, mechanisms of action and principles of antidotal therapy. Specific toxicologic studies as related to various food, drug, consumer, industrial, and environmental problems. Studies of various classes of chemical intoxicants. Prerequisites: college-level biology and chemistry courses. (4 units)

**381. Occupational Safety**

Principles of industrial safety, including general principles; accident control; industrial, mechanical, electrical, chemical and flammability hazards; fire and explosion protection; accident investigation; industrial safety inspections; record keeping; safety training and emergency planning; methods of industrial safety management as a unifying theme. (4 units)

**382. Nutrition for Health, Fitness, and Sports**

Addresses the nutrition needs of active people and athletes. Topics include macro- and micro-nutrient requirements for fitness and sport. Popular nutrition supplements and ergogenic aids used by active people and athletes will also be discussed. (Also offered as KINE 382. Students may not receive credit for both.) (4 units)

**384. Nutrition Assessment and Research Methodology**

Integration and application of experimental designs and methods employed in nutritional science research. Students will gain an understanding of interactions among nutrients and metabolic functions through data collection and analysis. Students will perform experiments and participate in discussions of nutritional assessment methods involving anthropometric, dietary, clinical, and biochemical tests. One hour lecture and three hours laboratory. Prerequisites: HSCI 350 or consent of instructor. (2 units)

**385. Food and Culture: Traditions and Trends**

Understanding of relationships among cultural, religious, and geographical locations to food consumed by people around the world. Comparison of differences and similarities in types of food and cuisines. Exploration of factors that affect types of food consumed and their effects on nutrition and health status. Three hours lecture and three hours laboratory. (4 units)

**399. Community Service Project**

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of department. (1-2 units)

**401. Advanced Environmental Health**

An integrated view of the factors that contribute to illness, injury, or death, and that affect the health status of individuals and populations. Topics include epidemiology, demographics, and statistics on health status, determinants of health and illness, behavioral aspects of health, and preventive care. Environmental health laws and regulations as well as compliance with current regulations are emphasized. The laboratory emphasizes methods of measuring and evaluating environmental health risks as well as field experience. Topics include: environments within buildings, food sanitation, water sanitation and control, solid and hazardous waste and control, air pollution and control, community noise and control. Four hours lecture and three hours laboratory. Formerly HSCI 353. Prerequisites: HSCI 352, college-level course work in biology, chemistry and physics is recommended or consent of instructor. (5 units)

**402. Principles of Occupational Health**

Principles of occupational health risks including anticipation, recognition, evaluation, and control. Influence of workplace risks on human health and their relationship to occupational medicine. Study of occupational health laws and regulations as well as methods of compliance with current regulations. Laboratory and field experience in topics that include: toxic and hazardous chemicals, airborne chemicals, materials of biological origin, noise, and electromagnetic radiation. Four hours lecture and three hours of laboratory per week. Formerly HSCI 353. Prerequisite: HSCI 352 or consent of instructor. College-level course work in chemistry and physics is recommended. (5 units)

**403. Vector-borne Disease Control**

Identification and control of insect and other vectors of diseases. Discussion of major topics in vector ecology including natural and chemical control methods and their impact on health and environmental quality. Four hours lecture and three hours laboratory. Formerly HSCI 458. Prerequisites: HSCI 352, college-level coursework in biology and chemistry, or consent of instructor. (5 units)

**404. Women's Health Issues**

Analysis of biological, psychological, and sociocultural issues related to the health and health care of women. Emphasis on responsibilities of women in maintaining and promoting their health. (4 units)

**415. Medical Care Organizations**

Analysis of the organization of health and medical care services, resources, facilities, financial aspects, and other related topics. Prerequisite: HSCI 271 or consent of instructor. (4 units)

**421. Community Mental Health**

Mental health care delivery system with emphasis on a community approach to prevailing problems and issues. Methods of evaluating community and school mental health education programs; survey of available resources. (4 units)

**422. Health Planning**

Health planning systems and procedures. Prerequisite: HSCI 271 or consent of instructor. (4 units)

**423. Health and Wellness of Older Adults**

The physiological, sociological, and psychological aspects of the aging process. Disease prevention and health promotion concepts related to the quality of life of older adults. (4 units)

**424. Health Facilities Planning**

Activities in health care facilities planning, for example, architectural, engineering, contractual, environmental, and other regulatory aspects. Facility planning processes, environmental forces, administrative coordination, and historical development. (4 units)

**425. Hearing Conservation and Noise Measurement**

Principles of audiology and noise measurements and their application to environmental and industrial hearing conservation programs. (2 units)

**432. School Health Administration and Planning**

Philosophical framework and history of the school health education program, including organization, funding, administration, and legal aspects. Emphasis on the roles of health teachers and school nurses within the context of a coordinated school health program, including parent-community advisory groups. Formerly HSCI 334 and 434. (4 units)

**433. School Health Education**

Health education concepts and content applied specifically to grades 7-12. Stresses instruction in health education for the teacher/school nurse, within the context of a coordinated school health system; teaching strategies and their adaptation to special populations; the identification and assessment of instructional resources; alignment with state and federal standards for health education. Formerly HSCI 333. Prerequisite: HSCI 120 or consent of instructor. (4 units)

**435. Health and Human Development**

Issues regarding the health and well-being of children and adolescents will be emphasized including physical, cognitive, emotional, and social development from an applied perspective. (4 units)

**436. Human Resource Management in Ambulatory Care/Group Practice Management**

Principles of effective human resource management as applied to medical group and ambulatory care organizations. Issues involving wage and hour laws, state and federal regulations of the work place, recruitment and retention of staff, training, compensation and ben-

efits, professional credentialing, licensure, and continuing education. Previously offered as a topic under HSCI 452. Prerequisite: HSCI 120 or consent of instructor. (4 units)

**437. Information Systems as Applied to Ambulatory Care/Group Practice Management**

Information system needs of medical group/ambulatory care organizations including the selection of software and hardware for an integrated information system. Solve problems related to the integration of clinical and financial data, understand the development of electronic medical records, patient scheduling systems, disease state management and HIPAA regulations. Previously offered as a topic under HSCI 452. Prerequisite: HSCI 120 or consent of instructor. (4 units)

**438. Financial Management of Ambulatory Care/Group Practice Management**

Financial requirements of medical groups and ambulatory care organizations, including balance sheets and operating statements. Financial analysis and planning, budgeting, coding, billing and collecting, co-payments and deductibles, capitation and sub-capitation techniques, accounts receivable, and claims payments. Previously offered as a topic under HSCI 452. Prerequisites: ACCT 211 and HSCI 120 or consent of instructor. (4 units)

**440. Family Health Issues for Educators**

Factors which influence the overall health status of today's adolescents, their families and communities, including fitness, nutrition, substance abuse, suicide, stress, and sexuality issues. The role of the secondary classroom teacher within the school health services and referral system is emphasized. Course conforms with the State Framework for Education in the Health Sciences for middle school and high school teacher candidates. May not be taken for elective credit in school health or public health concentrations. (4 units)

**441. Nutritional Biochemistry and Metabolism**

Study of metabolic roles of macro- and micronutrients in the body using an integrated approach to explore the roles of nutrients in biochemical, physiological, and metabolic functions. Includes effects of metabolic diseases on physiological and biochemical functions of the body. Formerly HSCI 351. Prerequisite: HSCI 365 and 384, or consent of instructor. (4 units)

**442. Advanced Human Nutrition**

Nutritional biochemistry and relevant topics in nutrition and dietetics. Emphasis on integration, interpretation, and application of nutrition research. Formerly HSCI 383 and 447. Prerequisite: HSCI 441 or consent of instructor. (2 units)

**443. Medical Nutrition Therapy I**

Development of skills and knowledge necessary for nutrition and dietary intervention in disease processes. Special emphasis on interrelationships between pathophysiology of disease processes and the dietary modifications required to recover from the disease condition and/or to improve the quality of life. Formerly HSCI 368. Prerequisite: HSCI 441, or consent of instructor. (4 units)

**444. Medical Nutrition Therapy II**

Continuation of Medical Nutrition Therapy I. Further development and skills and knowledge necessary for nutrition and dietary intervention in disease processes. Special emphasis on interrelationships between pathophysiology of disease processes and dietary modifications that are part of the treatment of disease/disability and/or to improve the quality of life. Formerly HSCI 369. Three hours lecture and three hours activity. Prerequisites: HSCI 442 and 443, or consent of instructor. (4 units)



**445. Community Nutrition**

The role of public and private agencies in nutrition programs. Application of nutrition principles to the improvement of the health status of individuals and groups in the community. Emphasis on program development, planning, and evaluation of community programs and educational methods. Prerequisites: HSCI 273, 442, and 443, or consent of instructor. (4 units)

**446. Senior Seminar in Dietetic Education**

Current and future trends in dietetic education, dietetic internship programs, and application processes. Prerequisites: HSCI 225 and senior standing in the Nutrition and Food Science program. (1 unit)

**451. Principles of Epidemiology**

Distribution and dynamics of human health problems; principles and procedures used to determine circumstances under which disease occurs or health prevails. The broadened scope of epidemiology is examined through case studies and community health approach. Prerequisite: HSCI 120 or consent of instructor. (4 units)

**452. Special Topics in Health Science and Human Ecology**

Examination of selected topics of current interest in health science. May be repeated for credit as topics change. Prerequisite: consent of instructor. (4 units)

**460. Strategic Planning and Marketing in the Health Care System**

Strategy-oriented management planning process, basic approaches and methodologies employed in strategic planning and health care marketing; economic and political forces which give form and shape to the health care marketplace. (4 units)

**465. Foodservice Production and Procurement**

Principles and procedures of menu planning, quantity food production, production scheduling, recipe adaptation, equipment operation, sanitation, and formula costing. Principles of procurement including purchasing, selection, storage of equipment and quantity foods. Three hours lecture and six hours laboratory. Prerequisites: HSCI 345 and 350, or consent of instructor. (5 units)

**467. Foodservice Systems Management**

Distribution and management of resources in food service management: personnel, facilities, materials, time, and money. Prerequisites: HSCI 465 and either MGMT 302 or PSYC 302, or consent of instructor. (4 units)

**470. Health Behavior**

Theoretical foundation for the development, analysis and interpretation of individual and community influences on decisions which impact health status. Strategies for health behavior modification. Prerequisites: prior or concurrent enrollment in HSCI 120 and 301 or consent of instructor. (4 units)

**471. Health Promotion: Program Planning and Implementation**

Introduction to the methods and processes of health promotion and change programs for both individuals and groups; emphasis in program design and implementation. Prerequisite: HSCI 470. (4 units)

**472. Program Evaluation**

Theory of and practice in a variety of program evaluation strategies in the school, community agency, and/or health care settings. Prerequisites: prior or concurrent enrollment in HSCI 471 and 498 or permission of instructor. (4 units)

**473. Instructional Methods in Health Education**

Theory, research, and practice of a variety of individual, small group and large group instructional strategies utilized in health education and health behavior change programs in school, community and/or clinical settings. Four hours lecture. Formerly HSCI 302. Prerequisites: HSCI 273, 310, 342, 364, and 470; or consent of instructor. (4 units)

**474. Advanced Audiometry**

Hearing tests, their objectives and uses for diagnostic and rehabilitative purposes. Techniques for administering auditory tests and the interpretation of their results emphasizing pure-tone audiometry. Prerequisite: HSCI 374 or 425 or equivalent. (4 units)

**477. Environmental Health Engineering**

Methods used in designing systems which mitigate environmental contamination of air, soil, and water. Topics include stream re-aeration, kinetics of biological degradation, soil mechanics, adsorption and other principles related to environmental media protection and renovation. Prerequisites: HSCI 120 and 352. (4 units)

**478. Environmental Health Management**

Methods of management for promoting optimum environmental health, emphasizing land use planning, environmental impact reporting, facility planning, and risk assessment. Prerequisite: HSCI 120. (4 units)

**489. Pre-Field Experience**

Preparatory work for field assignments through classroom discussion, agency contacts, and experience. Prerequisites: completion of all prerequisite courses with a "C" or better, prior or concurrent enrollment in HSCI 310, 342, 364, 471, and 473 (for public and school health education majors); HSCI 415, 460, and 490 (for health care/ambulatory care management majors); HSCI 432 and 433 (for school health education majors); or consent of instructor. (2 units)

**490. Health Service Administration**

Introduction to management theory and practice as they apply to the administration of health service programs. Emphasis is placed on the planning, analysis, organizing, staffing, directing, and evaluation functions necessary to administration of health service organizations. Budgeting functions and processes are discussed as they relate to health services administration. Prerequisite: HSCI 120. (4 units)

**492. Field Study: Action/Research in Human Ecology and Health**

Individual and team field studies and research in agencies with activities relevant to career goals and interests. Graded credit/no credit. One hour seminar and twelve hours field study per week. Prerequisite: HSCI 489 or consent of instructor.

- A. Field Study I (5 units)
- B. Field Study II (5 units)
- C. Field Study III (5 units)

**493. Field Experience Seminar**

Analyzes the field experience, examines trends in the profession, and prepares students for formal presentation of their internship project to department faculty, agency preceptors, and other students. Must be taken concurrently with HSCI 495 until completion of field experience. Prerequisite: HSCI 489. (1 unit)

**494. Internship in Health Science**

Internship option for students completing a second area of concentration in health sciences or student teaching experience for school nurses. Prerequisite: consent of instructor. (1-5 units)

**495. Field Experience**

Structured practical pre-professional experience in approved public or private agency, health care, or school settings. Graded credit/no credit. Prerequisites: HSCI 489; concurrent enrollment in HSCI 493; and signed consent of program advisor.

- A. A minimum of 240 hours of field experience for health care management or ambulatory care management majors. (5 units)
- B. A minimum of 320 hours of field experience for school or community health education majors. (6 units)

**496. Internship in Environmental Health**

Individual studies in environmental health. Students will be placed with public agencies to gain applied and/or research experience. Graded credit/no credit. Prerequisites: health science majors with concentration in environmental health science and senior class standing or consent of advisor. (4 units)

**498. Undergraduate Research Methodology in Health Science**

Entry-level research methods and application to contemporary health problems. Health data analysis and development of skills for determining appropriate analytical techniques and procedures. Four hours lecture and three hours data analysis laboratory. Materials fee required. Formerly HSCI 598. Prerequisite: HSCI 315 or consent of instructor. (5 units)

**499. Directed Reading**

Library/literature research of special topic under the direction of a faculty member. May be repeated for credit, a maximum of eight units may be applied toward graduation. Units from Directed Reading may not be used by student for departmental honors. Prerequisites: a minimum overall grade point average of 3.0 and completion of basic course work in topic area. A written plan of study must be submitted to and approved by the supervising faculty prior to registration in the course. (1-4 units)

**505. School Nurse Credential Program Orientation**

Overview of the School Nurse Credential Program including coursework, expectations, timelines and basic skills needed to provide screening for vision, scoliosis, and dental needs. Graded credit/no credit. Prerequisite: admission to the School Nurse Credential Program. (2 units)

**510. Hospital Administration**

Organization and administration of hospital facilities including planning and evaluation of services. Role of the hospital as part of the community. Formerly HSCI 427. Prerequisites: HSCI 271 and MGMT 302 or PSYC 302, or consent of instructor. (4 units)

**511. Organization and Management of Long-Term Care Facilities**

Examination of the professional administrative role and managerial concepts in long-term facilities, including nursing homes. Formerly HSCI 455. Prerequisites: HSCI 271 and MGMT 302 or PSYC 302, or consent of instructor. (4 units)

**512. Clinical Operations of Ambulatory Care/ Group Practices**

The management of physician practices, medical groups, and ambulatory care organizations such as imaging centers, outpatient surgery centers, and other outpatient services. Students will develop an understanding of issues and acquire skills in the management of non-acute care organizations owned or substantially controlled by physicians. Previously offered as a topic under HSCI 452. Prerequisite: HSCI 120 or consent of instructor. (4 units)

**513. Managed Care Systems**

Principles and process of utilization management, risk contracting, capitation, provider contracting, contract negotiations, division of financial responsibility, and Health Maintenance Organization (HMO) relationships, including quality outcomes measurements, patient satisfaction, and the specialist referral process. Previously offered as a topic under HSCI 452. Prerequisite: HSCI 120 or consent of instructor. (4 units)

**525. Health Data Analysis and Demography**

Introduction to analysis of health data using statistical procedures, development of skills for determining analytical techniques, and procedures for interpretation and presentation of resultant data; examination of sources and evaluation of demographic data and relationships to such topics as fertility, morbidity, mortality, population projection, life tables, and migration. Prerequisites: HSCI 451 and MATH 305 or consent of instructor. (4 units)

**530. Food-Borne Illnesses and Their Prevention**

Food-borne illnesses and food poisoning of microbial and chemical origins, causation and environmental control measures; proper environmental control measures; and proper environmental health conditions involved in storage, transportation, and service of foods in order to minimize health dangers. Formerly HSCI 430. Prerequisite: HSCI 352 or consent of instructor. (4 units)

**531. Bioterrorism**

History, identification, properties, and mode of transmission of agents of bioterrorism, including preventive, control, and treatment measures against bioterrorism. Prerequisites: college level biology and chemistry or consent of instructor. (4 units)

**540. School Health Programs and Practices**

Advanced examination of the teachers' role within a coordinated school health program. State and national guidelines are also reviewed. Prerequisite: must be a "2042" or Ryan credential candidate, or consent of instructor. (4 units)

**550. Health Aspects of Death and Dying**

Investigation into how the realities of death and loss influence the quality of a person's life and personal health status. The focus is on assisting students and professionals to develop the skills necessary to assist individuals deal with death, loss, grief, bereavement, and mourning in the healthiest ways possible. (4 units)

**557. Hazardous Material Control**

Major methods for the control of hazardous wastes from generation through disposal, including disease, environmental, and legal aspects of hazardous wastes as well as discussion of various disposal techniques. Formerly HSCI 357. Prerequisites: college-level biology and chemistry courses. (4 units)

### 558. Management of Water Quality

Survey of water quality parameters and pollution control techniques. Includes in-depth discussion on current topics in water legislation, water pollution, and its impact on public health, flood impacts, water conservation options, and drought management. Prerequisite: prior or concurrent enrollment in HSCI 617 or consent of instructor. (4 units)

### 561. Maternal and Child Nutrition

Significance and role of nutrition during pregnancy, lactation, and childhood including conditions that result from undernutrition. (2 units)

### 562. Issues in International Nutrition

Incidence of malnutrition in developing and industrialized countries. Focus on the multiple causes of malnutrition around the world, including food production and distribution, politics, and economic policies. (2 units)

### 590. Current Topics in Health Administration and Planning

Presentation and analysis of a particular issue or topic in health services administration or planning. May be repeated for credit as topics change. (2 units)

### 595. Independent Study

Research in special topics or projects including literature review for laboratory and/or applied research under the direction of a faculty member. A written report of the end product must be submitted and approved by a committee of faculty. Review of literature alone on a specific topic may not be used for independent study. A total of eight units may apply toward graduation. Graded credit/no credit. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-4 units)

# HISTORY

## Department of History

Social and Behavioral Sciences Building, Room 327F  
(909) 537-5524 <http://csbs.csusb.edu/history/>

### Bachelor of Arts

- History - Track A (Teaching Track)
- History - Track B
- History - Track C (Public and Oral History Option)

### Teaching Credential Program

Single Subject

### Minor

History

**FACULTY** Elliot Barkan (Emeritus), Robert Blackey, Lanny Fields (Emeritus), Joyce Hanson, Tiffany Jones, Cherstin Lyon, Thomas Long, Ward McAfee (Emeritus), Michael Persell (Emeritus), Tim Pytell, Cheryl Riggs, Richard Samuelson, Pedro Santoni (Chair), David Yaghoubian

History has been called the "extension of memory" which enables one to utilize past experiences. The study of history nurtures and refines a broad spectrum of skills which make not only for good historians and teachers, but for good workers in many fields where men and women are sought who can read critically, analyze and write. In fact, while teaching and research have traditionally been the avenues history majors have followed, a multitude of career opportunities has always existed for those who like history but do not wish to become teachers. The skills history majors learn and refine in thinking, research, problem defining and solving, speaking and writing-in conjunction with skills acquired from other selected courses-ideally suit them for positions in the business world and with governmental agencies.

The History Department has developed a major that can be completed by taking one of three tracks: Track A (designed for students wishing to be history teachers), Track B (designed for students interested in any of the other fields open to History majors), and Track C (designed to provide skills and training in historical methodologies for public and oral history professionals in museums, archives, libraries, historic houses and such). Each track includes courses that provide surveys of United States and world history, and an introduction to the nature of historical study. To meet the remainder of the requirements for Track A, students are required to take a number of other courses in history and from among the other social science fields. To meet the remainder of the requirements for Track B, students are required to choose from a wide spectrum of courses in an area of concentration.

Currently, the department consists of faculty specializing in the areas of American, European, African, Asian, Middle Eastern and Latin American history.

Lower-division courses may not be taken by students who have received credit for work in the subject in advance of the lower-division course, except where permission is granted by the department.

## B.A. IN HISTORY - TRACK A (Teaching Track)

### Requirements (105 units)

#### Total units required for graduation: 180

All students who are enrolled in the teacher track program should see a faculty advisor for assistance in choosing courses.

### Requirements for the B.A. in History - Track A (Teaching Track):

Core Requirements (37 units, 17 of which also count toward meeting General Education requirements):

1. Four units chosen from:
  - ANTH 140. World Civilizations I, the Rise of Civilization (4)
  - HIST 140. World Civilizations I, the Rise of Civilization (4)
2. HIST 142. World Civilizations II, the Civilizations of the East and West (4)
3. HIST 144. World Civilizations III, the Expansion of Europe (4)
4. HIST 200. United States History to 1877 (4)
5. HIST 201. United States History, 1877 to the Present (4)
6. ECON 200. Principles of Microeconomics (4)
7. ECON 202. Principles of Macroeconomics (4)
8. GEOG 100. Introduction to Human Geography (4)
9. GEOG 103. Physical Geography (5)

Upper-division History requirements (68 units)

1. HIST 305. Ancient and Medieval Europe (4)
2. HIST 306. Early Modern Europe, the Renaissance to 1815 (4)
3. HIST 307. Modern Europe, 1815 to the Present (4)
4. HIST 370. History of California (4)
5. HIST 394. Introduction to History (4)
6. HIST 594. Research Seminar in History (4)
7. Sixteen units of upper-division coursework in history.
  1. Four units chosen from:
    - HIST 383. Classical Islamic Civilization (4)
    - HIST 384. Modern Middle East (4)
  2. Four units chosen from:
    - HIST 428. Medieval China (4)
    - HIST 430. China, 1895-Present (4)
    - HIST 432. Communist China (4)
    - HIST 434. East Asia Since World War II (4)
    - HIST 440. Japan, 1868-Present (4)
  3. Four units chosen from:
    - HIST 385. Africa to 1500 (4)
    - HIST 386. Africa 1500 to 1870 (4)
    - HIST 387. Africa 1870 to Present (4)
  4. Four units chosen from:
    - HIST 390. History of Modern Mexico (4)
    - HIST 465. Modern Central America (4)
    - HIST 466. Foreign Relations of Latin America (4)
    - HIST 467. Latin American History Through Film (4)
    - HIST 469. Colonial Latin America (4)
    - HIST 470. Modern Latin America (4)
8. Four units of upper-division coursework in history.
  - HIST 340. African-American History, 1620-1865 (4)
  - HIST 341. African-American History, 1865-Present (4)
  - HIST 344. Women in U.S. History, 1620-1865 (4)
  - HIST 345. Women in U.S. History, 1865-Present (4)
  - HIST 346. Women in the Black Freedom Movement (4)
  - HIST 391. Chicano History (4)
  - HIST 565. Ethnic Minorities in American History (4)
  - HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
  - HIST 567. The Asian-American Experience (4)



9. Twelve units of upper-division coursework in History:
- HIST 350. The American Colonies, 1607-1783 (4)
  - HIST 351. The Evolution of American Democracy, 1783-1840 (4)
  - HIST 352. The Age of Jackson (4)
  - HIST 353. The Coming of the Civil War (4)
  - HIST 354. Civil War and Reconstruction (4)
  - HIST 356. The United States, 1877-1917 (4)
  - HIST 357. The United States, 1917-1945 (4)
  - HIST 358. United States in World War II (4)
  - HIST 359. The United States Since 1945 (4)
  - HIST 540. Constitutional History of the United States (4)
10. Twelve units of electives must be chosen from any upper-division history courses numbered 300-597 (provided that none have been used to meet previously stated requirements for the major.)

## **B.A. IN HISTORY - TRACK B**

### **Requirements (68 units)**

**Total units required for graduation: 180**

### **Requirements for the B.A. in History - Track B:**

1. Four units chosen from:
  - ANTH 140. World Civilizations I, the Rise of Civilization (4)
  - HIST 140. World Civilizations I, the Rise of Civilization (4)
2. HIST 142. World Civilizations II, the Civilizations of the East and West (4)
3. HIST 144. World Civilizations III, the Expansion of Europe (4)
4. HIST 200. United States History to 1877 (4)
5. HIST 201. United States History, 1877 to the Present (4)
6. HIST 394. Introduction to History (4)
7. HIST 494. Proseminar in History (4)
8. HIST 594. Research Seminar in History (4)
9. Thirty-six units of other upper-division course work in history selected in consultation with an advisor, 24 of which must be chosen from one of the following areas:

#### **African History**

- ANTH 302. African Archaeology (4)
  - HIST 385. Africa to 1500 (4)
  - HIST 386. Africa 1500 to 1870 (4)
  - HIST 387. Africa 1870 to Present (4)
  - HIST 450. History of South Africa (4)
- See the History Department regarding additional courses

#### **Asian History**

- HIST 383. Classical Islamic Civilization (4)
- HIST 384. Modern Middle East (4)
- HIST 426. Early Imperial China (4)
- HIST 428. Medieval China (4)
- HIST 430. China, 1895-Present (4)
- HIST 432. Communist China (4)
- HIST 434. East Asia Since World War II (4)
- HIST 440. Japan, 1868-Present (4)

#### **European History**

- HIST 305. Ancient and Medieval Europe (4)
- HIST 306. Early Modern Europe, the Renaissance to 1815 (4)
- HIST 307. Modern Europe, 1815 to the Present (4)
- HIST 320. History of Ancient Greece (4)
- HIST 321. History of Rome (4)
- HIST 400. Early Medieval Europe (4)
- HIST 401. Late Medieval Europe (4)
- HIST 402. Renaissance and Reformation (4)
- HIST 403. The Age of Absolutism and Enlightenment (4)

- HIST 405. Nazi Germany and the Holocaust (4)
- HIST 406. European Intellectual History (4)
- HIST 409. Twentieth Century Europe (4)
- HIST 410. Hitler's Europe (4)
- HIST 480. History of Christianity I (4)
- HIST 481. History of Christianity II (4)
- HIST 500. Tudor and Stuart England (4)
- HIST 501. Britain, 1688-1901 (4)
- HIST 503. Europe Since 1945 (4)
- HIST 520. Tsarist Russia (4)
- HIST 521. The Soviet Union (4)
- HIST 535. Studies in European National History (4)

#### **Latin American History**

- HIST 390. History of Modern Mexico (4)
- HIST 391. Chicano History (4)
- HIST 465. Modern Central America (4)
- HIST 466. Foreign Relations of Latin America (4)
- HIST 467. Latin American History Through Film (4)
- HIST 469. Colonial Latin America (4)
- HIST 470. Modern Latin America (4)

#### **United States History**

- HIST 340. African-American History, 1620-1865 (4)
- HIST 341. African-American History, 1865-Present (4)
- HIST 344. Women in U.S. History, 1620-1865 (4)
- HIST 345. Women in U.S. History, 1865-Present (4)
- HIST 346. Women in the Black Freedom Movement (4)
- HIST 350. The American Colonies, 1607-1783 (4)
- HIST 351. The Evolution of American Democracy, 1783-1840 (4)
- HIST 352. The Age of Jackson (4)
- HIST 353. The Coming of the Civil War (4)
- HIST 354. Civil War and Reconstruction (4)
- HIST 356. The United States, 1877-1917 (4)
- HIST 357. The United States, 1917-1945 (4)
- HIST 358. United States in World War II (4)
- HIST 359. The United States Since 1945 (4)
- HIST 360. American History Through Film (4)
- HIST 422. 20th Century Americans (4)
- HIST 509. United States History in the Classroom (4)
- HIST 540. Constitutional History of the United States (4)
- HIST 556. Foreign Relations of the United States (4)
- HIST 560. History of the American West (4)
- HIST 562. History of Southern California (4)
- HIST 565. Ethnic Minorities in American History (4)
- HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
- HIST 567. The Asian-American Experience (4)

Up to 12 units from supporting disciplines outside the History Department may be included with approval of the advisor or department chair. Students working to develop other 24-unit concentrations may do so with the approval of the advisor and department chair.

In exceptional circumstances HIST 595 may be substituted for either HIST 494 or 594, but not both, with consent of advisor and department chair.

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**B.A. IN HISTORY - TRACK C (Public and Oral History Option)**

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**Requirements (80 units)****Total units required for graduation: 180**

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**Requirements for the B.A. in History - Track C (Public and Oral History Option):**

1. Four units chosen from:
  - ANTH 140. World Civilizations I, the Rise of Civilization (4)
  - HIST 140. World Civilizations I, the Rise of Civilization (4)
2. HIST 142. World Civilizations II, the Civilizations of the East and West (4)
3. HIST 144. World Civilizations III, the Expansion of Europe (4)
4. HIST 200. United States to 1877 (4)
5. HIST 201. United States, 1877 to the Present (4)
6. HIST 323. Introduction to Public History (4)
7. HIST 324. Introduction to Oral History (4)
8. HIST 394. Introduction to History (4)
9. HIST 594. Research Seminar in History (4)
10. Twelve units of professional preparation electives selected from:
  - HIST 326. Historic Preservation (4)
  - HIST 327. Museum and Archival Management (4)
  - HIST 329. Topics in Public History (4)
  - HIST 330. Topics in Oral History (4)
  - HIST 376. Exhibit Design (4)
  - HIST 377. Historical Documentaries (4)May choose only one of the following two courses:
  - ANTH 375. Museum Methods (4)
  - HIST 375. Museum Methods (4)
11. Eight units of supervised internship  
HIST 575. Internship in History (4) for a total of (8)
12. Twenty-four units of upper-division history course work (300-599).  
Four units from outside of history may be chosen with advisor approval."

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**TEACHING CREDENTIAL PROGRAM**

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Students wishing to prepare for a single subject teaching credential in history are encouraged to complete Track A of the Bachelor of Arts in History as well as certain prerequisites to the teacher education program. For information about the professional education component, admission to the teacher education program, or specific requirements for the single subject credential see Page 157 or contact the Credentials Office, CE-102.

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**MINOR IN HISTORY**

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**Requirements (32 units)**

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**Requirements for a minor in History:**

Requirements for a minor in history include 32 units, of which 24 units must be upper-division, to include 12 units as follows:

1. United States history  
Four units chosen from:  
May choose only one of the following two courses:
  - ANTH 312. Historical Archaeology (4)
  - HIST 312. Historical Archaeology (4)
- HIST 340. African-American History, 1620-1865 (4)
- HIST 341. African-American History, 1865-Present (4)
- HIST 344. Women in U.S. History, 1620-1865 (4)
- HIST 345. Women in U.S. History, 1865-Present (4)
- HIST 346. Women in the Black Freedom Movement (4)
- HIST 350. The American Colonies, 1607-1783 (4)
- HIST 351. The Evolution of American Democracy, 1783-1840 (4)

- HIST 352. The Age of Jackson (4)
  - HIST 353. The Coming of the Civil War (4)
  - HIST 354. Civil War and Reconstruction (4)
  - HIST 356. The United States, 1877-1917 (4)
  - HIST 357. The United States, 1917-1945 (4)
  - HIST 358. United States in World War II (4)
  - HIST 359. The United States Since 1945 (4)
  - HIST 360. American History Through Film (4)
  - HIST 391. Chicano History (4)
  - HIST 395. Topics in History (4)
  - HIST 396. Topics in History (2)
  - HIST 422. 20th Century Americans (4)
  - HIST 509. United States History in the Classroom (4)
  - HIST 540. Constitutional History of the United States (4)
  - HIST 556. Foreign Relations of the United States (4)
  - HIST 560. History of the American West (4)
  - HIST 565. Ethnic Minorities in American History (4)
  - HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
  - HIST 567. The Asian-American Experience (4)
2. European history  
Four units chosen from:
    - HIST 305. Ancient and Medieval Europe (4)
    - HIST 306. Early Modern Europe, the Renaissance to 1815 (4)
    - HIST 307. Modern Europe, 1815 to the Present (4)
    - HIST 320. History of Ancient Greece (4)
    - HIST 321. History of Rome (4)
    - HIST 400. Early Medieval Europe (4)
    - HIST 401. Late Medieval Europe (4)
    - HIST 402. Renaissance and Reformation (4)
    - HIST 403. The Age of Absolutism and Enlightenment (4)
    - HIST 405. Nazi Germany and the Holocaust (4)
    - HIST 406. European Intellectual History (4)
    - HIST 409. Twentieth Century Europe (4)
    - HIST 480. History of Christianity I (4)
    - HIST 481. History of Christianity II (4)
    - HIST 500. Tudor and Stuart England (4)
    - HIST 501. Britain, 1688-1901 (4)
    - HIST 503. Europe Since 1945 (4)
    - HIST 520. Tsarist Russia (4)
    - HIST 521. The Soviet Union (4)
    - HIST 535. Studies in European National History (4)
  3. Nonwestern history  
Four units chosen from:
    - HIST 380. History of World Religions (4)
    - HIST 383. Classical Islamic Civilization (4)
    - HIST 384. Modern Middle East (4)
    - HIST 385. Africa to 1500 (4)
    - HIST 386. Africa 1500 to 1870 (4)
    - HIST 387. Africa 1870 to Present (4)
    - HIST 390. History of Modern Mexico (4)
    - HIST 426. Early Imperial China (4)
    - HIST 428. Medieval China (4)
    - HIST 430. China, 1895-Present (4)
    - HIST 432. Communist China (4)
    - HIST 434. East Asia Since World War II (4)
    - HIST 440. Japan, 1868-Present (4)
    - HIST 450. History of South Africa (4)
    - HIST 465. Modern Central America (4)
    - HIST 466. Foreign Relations of Latin America (4)
    - HIST 467. Latin American History Through Film (4)
    - HIST 469. Colonial Latin America (4)
    - HIST 470. Modern Latin America (4)

## Other Requirements (20 units)

- Sixteen units of electives.
- Four units, which also count toward meeting General Education requirements, chosen from:
  - HUM 325. Perspectives on Gender (4)
  - HUM 328. Asian Cultural Traditions (4)
  - HUM 335. The Origin and Contemporary Role of Latino Culture (4)
  - HUM 350. The Cultures of American Childhood (5)
  - HUM 370. African Heritage in the Arts (4)
  - HUM 375. The World of Islam (4)
  - HUM 380. Comparative Studies in the Arts: East and West (4)
  - NSCI 325. Perspectives on Gender (4)
  - SSCI 316. Race and Racism (4)
  - SSCI 325. Perspectives on Gender (4)
  - SSCI 350. Roots of Modern Racism in America (4)

**DEPARTMENTAL HONORS**

Students majoring in history are eligible to receive honors in history at graduation if the following conditions are met:

- At least one-half of the course work required in the major is completed at this university;
- Earned a grade point average of at least 3.5 in the major, including courses for the major taken elsewhere;
- Earned an overall undergraduate grade point average of 3.0 ("B") or better;
- Successful completion of HIST 597. Senior Honors Project, resulting in a thesis paper.

Applications for candidacy must be made by the beginning of the senior year. Approval of candidacy and of the project and project advisor rests with the department. The project advisor and one other faculty reader from the department will have the responsibility for evaluation of the completed thesis paper.

**PHI ALPHA THETA**

Students who have completed at least 12 units of history at CSUSB and who have a grade point average of at least 3.3 ("B+") in ALL history courses at the college level and who have a minimum overall grade point average of 3.0 ("B") in two-thirds of all other college level course work may join the university's chapter of Phi Alpha Theta, the international honor society in history. Additional information can be obtained from the Department of History.

**COURSE OFFERINGS IN  
HISTORY (HIST)****Lower Division****140. World Civilizations I, the Rise of Civilization**

Activities and achievements of humans through the rise and diffusion of civilizations in Eurasia, Africa, and the Americas to about the dawn of the Christian era. (Also offered as ANTH 140. Students may not receive credit for both.) (GE=D3) (HIST 140+142+144=CAN HIST SEQ C) (4 units)

**142. World Civilizations II, the Civilizations of the East and West**

Major civilizations of the past, including the Mediterranean world, ancient India and China, the Byzantine, Islamic, sub-Saharan African and Amerindian Empires, Europe in the Middle Ages and the connections between and among some of these societies from approximately 100 B.C.E. to about 1450 C.E. (GE=D3) (HIST 140+142+144=CAN HIST SEQ C) (4 units)

**144. World Civilizations III, the Expansion of Europe**

Rise to dominance of the European states and their impact throughout the world, 1500 C.E. to the present. (GE=D3) (HIST 140+142+144=CAN HIST SEQ C) (4 units)

**146. American Civilization**

Historical development of the fundamental values of the American culture and the influences of these in selected areas of American life. This course meets the state code requirements in the U.S. Constitution and in U.S. history. (GE=D1) (4 units)

**200. United States History to 1877**

Survey of the history of the United States from the colonial beginnings to 1877. This course meets the state code requirement in U.S. history. It also meets the state code requirement in the U.S. Constitution when taken in conjunction with HIST 201. (GE=D1) (HIST 200=CAN HIST 8; HIST 200+201=CAN HIST SEQ B) (4 units)

**201. United States History, 1877 to the Present**

Survey of the history of the United States from 1877 to the present. This course meets the state code requirement in U.S. history. It also meets the state code requirement in the U.S. Constitution when taken in conjunction with HIST 200. (GE=D1) (HIST 201=CAN HIST 10; HIST 200+201=CAN HIST SEQ B) (4 units)

**270. California History**

Cultural and political history of California from pre-Columbian times to the present. Topics will include Native cultures, Spanish colonization, the mission system, Mexican rule, the Mexican war, the gold rush, the state constitution, Progressive-era political reforms, and immigration. Meets the subject matter requirements for the Liberal Studies degree, in preparation for teaching grades K-8. This course meets the state code requirement in state and local government. (4 units)

**Upper Division****305. Ancient and Medieval Europe**

Institutions, culture and political development of Europe in the ancient and medieval periods from circa the eighth century B.C.E. to 1350. (4 units)

**306. Early Modern Europe, the Renaissance to 1815**

Institutions, culture, and political development of Europe from the Renaissance to the end of the Napoleonic Wars. Formerly HIST 300. (4 units)

**307. Modern Europe, 1815 to the Present**

Institutions, culture, and political development of Europe from the Congress of Vienna to the present. Formerly HIST 301. (4 units)

**312. Historical Archaeology**

Use of archaeological methods to study historic peoples. Historical and archaeological methods and their results. Focus will be primarily on North America from A.D. 1492 to modern times. (Also offered as ANTH 312. Students may not receive credit for both.) (4 units)

**320. History of Ancient Greece**

Greek history from the Minoan and Mycenaean civilizations to the reign of the Roman Emperor Justinian in 527-565 C.E. (4 units)

**321. History of Rome**

Roman history from earliest times to the end of the Roman Empire in the West. (4 units)

**322. Archival Practices**

Applied approach to archival methods, the accessioning, de-accessioning, cataloging, calendar composition, storage of objects and archival materials, loan procedures, policies and legal issues. Field trips and projects required. (4 units)

**323. Introduction to Public History**

Introduction to public history, focusing on museums, historic sites, libraries, and archives, and the diverse media employed in the production of public history. Projects and field trips are required. (4 units)

**324. Introduction to Oral History**

Introduction to oral history, focusing on the origins of the oral history movement, the issues involved in oral history, interviewing techniques, and the diverse media and technologies employed in the production of oral history. Oral history projects are required. (4 units)

**326. Historic Preservation**

Examination of the methods, theories, and issues in historic preservation. Field trips and projects are required. Prerequisites: HIST 324 and 325, or consent of instructor. (4 units)

**327. Museum and Archive Management**

General overview of the management of museums and archival collections. Field trips and projects required. Formerly a topic under HIST 392. Prerequisite: HIST 323 or consent of instructor. (4 units)

**329. Topics in Public History**

Examination of topics in public history, including local history, conservation, historic architecture, living history and material culture. May be repeated for credit as topics change. Prerequisites: HIST 323 and 325, or consent of instructor. (4 units)

**330. Topics in Oral History**

Examination of topics in oral history, including regional or ethnic groups, World War II, the Civil Rights movement, or the Vietnam War. May be repeated for credit as topics change. Prerequisites: HIST 324 and 325, or consent of instructor. (4 units)

**340. African-American History, 1620-1865**

History of African-American people in the United States during the slave era. Examines the lives of slaves, the slave owners, and the system that bound them together as well as the place of free blacks in American society. (4 units)

**341. African-American History, 1865-Present**

Social, cultural, political and economic history of African-American people from emancipation to the present. Places special emphasis on African-American agency, self-development and self-determination. (4 units)

**344. Women in U.S. History, 1620-1865**

Examines women's roles in American history from colonial times through the Civil War. Special emphasis on the diversity among the lives of women. Formerly HIST 513. (4 units)

**345. Women in U.S. History, 1865-Present**

Examines women's roles in American history from 1865 to the present. Examines the diversity of women's experiences and their struggles for social, economic, political and cultural equality. Formerly HIST 513. (4 units)

**346. Women in the Black Freedom Movement**

Examines the roles of women in the struggle for social justice and black equality in America. Treats the historical background to the movement including the key women activists of the civil rights decade, 1954-1964. (4 units)

**350. The American Colonies, 1607-1783**

The thirteen colonies from European origins to the attainment of independence. (4 units)

**351. The Evolution of American Democracy, 1783-1840**

Analysis of the development of American society, politics and economy during the Confederation, Federalist, Jeffersonian and Jacksonian Eras. (4 units)

**352. The Age of Jackson**

Examines the influence of various political, social, economic religious and intellectual developments during the Age of Jackson (1815-1848) to the formation of modern American culture. (4 units)

**353. The Coming of the Civil War**

Examines the period from 1820 to 1860 focusing on the complex issues leading to the American Civil War. (4 units)

**354. Civil War and Reconstruction**

Background and causes of the Civil War and the problems of Reconstruction. (4 units)

**356. The United States, 1877-1917**

Transformation of the nation between the end of Reconstruction and entrance into World War I. (4 units)

**357. The United States, 1917-1945**

Principal developments in American life from World War I to the end of World War II. (4 units)

**358. United States in World War II**

The United States homefront during World War II, focusing on social, economic and constitutional issues. (4 units)

**359. The United States Since 1945**

Major changes in the United States since the end of World War II. (4 units)

**360. American History Through Film**

Explores the cultural, social and economic issues that have shaped American history through the study and analysis of feature films. (Not a course in film studies or criticism.) Formerly a topic under HIST 395. (4 units)

**370. History of California**

Political, economic, social and cultural development of California from Spanish times to the present. This course meets the state code requirement in state and local government. (4 units)

**375. Museum Methods**

Examination of the management of museums and archival collections, including accessioning, cataloging and storage of objects. Field trips and projects are required. (Also offered as ANTH 375. Students may not receive credit for both.) (4 units)

**376. Exhibit Design**

Examination of the theories and methods used in designing exhibits for museums, libraries, and historic houses, focusing on interpretation and exhibit creation. Some exhibits may be implemented in the Anthropology Museum. Field trips and completion of an exhibition brief are required. (Also offered as ANTH 376. Students may not receive credit for both.) Prerequisites: HIST 323 and 325 or consent of instructor. (4 units)



**377. Historical Documentaries**

Examination of the development and role of historical documentaries in American society, focusing on the role of the historian in the research and production of the documentaries as well as a critical analysis of the individual productions and their historical, material and intellectual content. (4 units)

**380. History of World Religions**

Historical development of Judaism, Hinduism, Buddhism, Christianity and Islam. (4 units)

**383. Classical Islamic Civilization**

Introduction to the classical Islamic period in the Central and Western (North African and Ottoman) Islamic lands. Considers the development of Islam as a religion and civilization, the expansion of the Islamic world, and the rise of the Ottoman empire. (4 units)

**384. Modern Middle East**

Survey of the history of the Middle East since the eighteenth century, emphasizing the political and social history of Turkey, Iran, Iraq, Egypt, and the Levant (Lebanon, Palestine/Israel, Syria, Jordan). Prerequisite: HIST 383 or consent of instructor. (4 units)

**385. Africa to 1500**

Deals with the main themes of African history to 1500: Ancient Egypt, the Mediterranean intercommunicating zone during the Phoenician, Greek and Roman empires, Christianity, trans-Saharan and other intra-African trading and exchange networks, Indian Ocean trading system, Islam and Islamization, development of African state systems and "stateless" sociopolitical constructs. (4 units)

**386. Africa 1500 to 1870**

Deals with the main themes of African history in the period following western European expansion and the developing world trade system that resulted. Topics covered include African political development, development and abolition of trans-Atlantic slave trade, discussion of trans-Saharan and Indian ocean slave and commodity export trades, and comparison of various social systems that developed on the continent. (4 units)

**387. Africa 1870 to Present**

Deals with the main themes of African history since 1870, including European partition of the continent, resistance to partition and colonial rule, systems of colonial rule in Africa, Christianity and Islam during the colonial period, independence movements, post-colonial states and development issues. (4 units)

**390. History of Modern Mexico**

Survey of Mexican history from the nineteenth century wars of independence to the present. (4 units)

**391. Chicano History**

Mexican-Americans in the United States from the Colonial period to the present, with special emphasis on the Southwest. (4 units)

**394. Introduction to History**

Introduction to historical thought and study through the use of sources, development of genres of history, general historiography and conventions of historical writing. May not be taken for credit by students who have received credit for HIST 490. (4 units)

**395. Topics in History**

Examination of topics of interest in history. May be repeated for credit as topics change. (4 units)

**396. Topics in History**

Examination of topics of interest in history. May be repeated for credit as topics change. (2 units)

**399. Community Service Project**

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of four units. No more than four units of credit for community service project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: a project proposal must be approved by the department in advance of enrollment. (1-2 units)

**400. Early Medieval Europe**

Survey of the political, economic, and social transformation of Europe from the fall of Rome through the eleventh century. (4 units)

**401. Late Medieval Europe**

Survey of the political, economic, and social transformation of Europe during the high Middle Ages, from the eleventh century to the fourteenth century. (4 units)

**402. Renaissance and Reformation**

Principal political, economic, intellectual and religious developments in Europe from about 1300 to 1648. (4 units)

**403. The Age of Absolutism and Enlightenment**

The period from 1648 to 1789, emphasizing the development of the modern state, the new scientific movement and the growth of revolutionary ideas. (4 units)

**405. Nazi Germany and the Holocaust**

The rise of Nazi Germany with a focus on the intertwined worlds of perpetrators and victims of the Holocaust. (4 units)

**406. European Intellectual History**

The intellectual history of Europe from the Renaissance to the present. (4 units)

**409. Twentieth Century Europe**

Political and cultural history of Europe from the rise of facism to the fall of communism. (4 units)

**410. Hitler's Europe**

Development of totalitarian ideologies focusing primarily on the theory and practice of National Socialism in Germany during the period 1918-1945. (4 units)

**415. Studies in War and Society**

Intensive study of war and its impact on society. Conflicts from different parts of the world are examined. May be repeated for credit as topics change. (4 units)

**422. 20th Century Americans**

Biographical focus on key American leaders who affected the course of 20th century American history. (4 units)

**426. Early Imperial China**

Principal political, social, economic, and cultural developments of China from the advent of Confucianism (500 B.C.E.) to the founding of the Sui Dynasty (589 C.E.). (4 units)

**428. Medieval China**

Principal political, social, economic, and cultural developments in China from 589-1644. (4 units)

**430. China, 1895-Present**

Institutions, culture, society, economy and political development of China from the Sino-Japanese War (1894-95) to the present. (4 units)

**432. Communist China**

Principal political, social, economic, and cultural developments in the People's Republic of China. (4 units)

**434. East Asia Since World War II**

Principal themes in the histories of Japan, China, Korea, and Vietnam since 1945. (4 units)

**440. Japan, 1868-Present**

Institutions, culture, society, economy and political development of Japan from the Meiji Restoration to the present. (4 units)

**450. History of South Africa**

History of the region of the Republic of South Africa, including early African settlement, European trade, conflict and conquest, the development and demise of apartheid, and contemporary developments. (4 units)

**465. Modern Central America**

Survey of the political, economic, and social history of the five major Central American nations-Nicaragua, El Salvador, Guatemala, Honduras, and Costa Rica-from their independence in the early 19th century to the present. (4 units)

**466. Foreign Relations of Latin America**

Survey of the foreign relations of the nations of Latin America with special emphasis on U.S.-Latin American relations. (4 units)

**467. Latin American History Through Film**

Cultural, social, political and economic issues that have shaped Latin America through the study and analysis of feature films and associated readings. (4 units)

**469. Colonial Latin America**

Survey of Spanish colonial system beginning with discovery of America and continuing to the independence period. (4 units)

**470. Modern Latin America**

Survey of the development and interaction of modern Latin American institutions in the major nations of Central and South America. (4 units)

**475. The Old South**

Examination of the antebellum South and the Southern Civil War experience. Formerly a topic under HIST 395. (4 units)

**480. History of Christianity I**

Historical development of early Christianity from its origins to the fall of Rome. (4 units)

**481. History of Christianity II**

Historical development of Christianity from the fall of Rome to the eve of the Protestant Reformation. (4 units)

**485. Arab-Israeli Conflict**

Survey of the history of the Arab-Israeli conflict, concentrating on the evolution of political Zionism and Palestinian nationalism, the Palestine Mandate, and the wars and peace negotiations between Israel and neighboring Arab nations, and between Israel and the Palestinians since 1948. Formerly a topic under HIST 395. (4 units)

**486. Modern Iran**

Examines the political, economic, and social history of Iran from the fall of the Safavid Empire in 1722 to the present, with emphasis on the Pahlavi era and the Islamic Revolution of 1979. Formerly a topic under HIST 395. Prerequisite: HIST 383 or consent of instructor. (4 units)

**487. Topics in Modern Middle Eastern History**

Examines the modern political, economic, and social history of either Iraq, Turkey, Egypt, Syria or Saudi Arabia. May be repeated for credit as topics change. Prerequisite: HIST 383 or consent of instructor. (4 units)

**491. Nationalism and Conflict in the Middle East**

Investigates the origins and evolution of nationalism and national identity in the Middle East, and the relationship between nationalism and conflict in the region. Course utilizes a variety of materials that include explanatory theories of nationalism, secondary monographs, primary writings of Middle Eastern nationalists, and social biographical portraits of the lives and experiences of "ordinary" non-elite Middle Eastern men and women. Prerequisites: HIST 383 and 384 or consent of instructor. (4 units)

**492. U. S. Media and the Middle East**

Explores the evolution of U.S. news media coverage of events in the Middle East during the twentieth century and the complex links between news reporting, public opinion, and American foreign policy in the region. Formerly a topic under HIST 395. Prerequisites: HIST 383 and 384 or consent of instructor. (4 units)

**493. Iran-U.S. Relations**

Explores the evolution of the relationship between Iran and the United States from 1857 to the present. Readings will draw from primary and secondary sources, including documents, memoirs, biographies, and monographs emphasizing political and diplomatic encounters. Prerequisites: HIST 383 and 384 or consent of instructor. (4 units)

**494. Proseminar in History**

Historiographical seminar introducing advanced junior-level students to a specific topic or sub-field of history. Provides training and introduction to historical argumentation and criticism with an emphasis on secondary works and contrasting interpretations. Prerequisite: HIST 394 or consent of instructor. (4 units)

**495. Politics of Oil**

Survey of the history of the petroleum industry and its impact on global politics and economics, with an emphasis on the Middle East and United States foreign policy. Prerequisite: HIST 383 and 384 or consent of instructor. (4 units)

**500. Tudor and Stuart England**

Principal political, social, economic and religious developments of England from 1485 to 1688. (4 units)

**501. Britain, 1688-1901**

Principal political, social, economic and religious developments in Britain in the age of revolution and reform, from the Glorious Revolution to the death of Queen Victoria. (4 units)

**503. Europe Since 1945**

Europe since 1945, emphasizing the evolution of supranational political, economic, diplomatic, and military institutions in the Cold War and post-Cold War eras. (4 units)

**509. United States History in the Classroom**

Review of United States history from the perspective of the classroom teacher (grades 6 through 12). Identifies teaching strategies for various content areas in United States history. (4 units)

**510. Modern France**

History of French culture, society, and politics from the fall of Napoleon to the present. (4 units)

**520. Tsarist Russia**

Principal political, social, economic, and cultural developments in Russia from the Kievan state to the Soviet state, c. 900-1917. (4 units)

**521. The Soviet Union**

Principal political, social, economic, and cultural developments in the Soviet Union since 1917. (4 units)

**535. Studies in European National History**

Historical development of individual European nations (for example, Germany, France, Great Britain, Russia, Spain) in the modern period. May be repeated for credit as topics change. (4 units)

**540. Constitutional History of the United States**

American constitutional development from English and European origins to the present day. This course meets the state code requirement in U.S. history and U.S. Constitution. Prerequisite: HIST 200 or 201, or PSCI 410 or consent of instructor. (4 units)

**556. Foreign Relations of the United States**

Survey of American foreign policy with special emphasis on America's rise to world power in the 20th century. (4 units)

**560. History of the American West**

Survey of the western expansion of the American nation. (4 units)

**562. History of Southern California**

Political, economic, social and cultural development of Southern California from Pre-Columbian times. (4 units)

**565. Ethnic Minorities in American History**

Historical perspective of the major ethnic groups, their efforts to assimilate and their interaction with American society. (4 units)

**566. Ethnic Minorities in the American Southwest: Past and Present**

A comparative approach to the historical and contemporary experiences of Chicanos, Indians, Asians and other ethnic minorities in the Southwestern/Western United States. (4 units)

**567. The Asian-American Experience**

Examination of the immigration and post-immigration experiences of Chinese, Japanese, Filipino, Korean, and Southeast Asian newcomers to the United States since the 1840s. (4 units)

**575. Internship in History**

Supervised work and study in work situations involving historical skills. May be repeated once for credit. Prerequisites: major in history; one introductory statistics course; INFO 102 and 103, and ACCT 211; or consent of the department. (4 units)

**589. Revolutions in History**

Nature and causes of revolutions from an historical as well as a broad social science perspective; both revolutions and revolutionists from different parts of the world are examined. (4 units)

**594. Research Seminar in History**

Senior-level seminar focused on the use of historical primary sources with the final goal of producing a substantial research paper. Involves seminar discussions and individual meetings with instructor. Prerequisites: HIST 394 and 494 or consent of instructor. (4 units)

**595. Independent Study**

Special topics in historical research. A total of four units in HIST 595 may be applied toward the history major and eight units in HIST 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (2-4 units)

**597. Senior Honors Project**

Original research in an area of historical studies, culminating in a major research report receiving approval of the history faculty. Enrollment limited to students whose formal application for departmental honors is approved. (5 units)

**Graduate level courses can be found on Page 462.**

# HUMAN DEVELOPMENT

## Department of Psychology

Social and Behavioral Sciences Building, Room 425  
(909) 537-5570 <http://psychology.csusb.edu/>

### Bachelor of Arts

- Human Development
- Child Development Track
- School Age Track
- Lifespan Track

**FACULTY:** Sybil Carrere, David Chavez, Esteban Diaz (Emeritus), Chuck Hoffman, Todd Jennings, Laura Kamptner, Rosemary McCaslin, Jim Pierson, Jason Reimer, Robert Ricco, Sue Spitzer, Sharon Ward, Amanda Wilcox-Herzog (Coordinator), Eugene Wong, Joanna Worthley

The human development major is an interdisciplinary program of study of the processes and changes that characterize human development. The major provides an important advantage of promoting an holistic and interdisciplinary approach to human growth and development that no single discipline can offer. Course offerings are drawn primarily from human development, psychology, sociology and anthropology, with electives available from other departments.

Students selecting the Bachelor of Arts degree in Human Development, with the study of human development and behavior as its major theme, typically choose careers related to working with people when they graduate, e.g., education, social services, counseling and guidance or in health delivery settings. The major also provides academic preparation for graduate-level training in related fields, including human or child development, family studies, psychology, social work, law, gerontology, human ecology, and education. Human development majors who plan on pursuing graduate level training should take at least one research methodology course as part of their degree program.

The following three tracks are available for students working toward a Bachelor of Arts in Human Development:

The Child Development Track is designed to provide students with a solid background in child growth and development, and includes the option of focusing on early childhood education. This track prepares students for occupations or professions that call for child development specialists, e.g., early childhood education, infant and toddler specialists, and other positions involving work with children and families. This track will also prepare students for graduate level training in related fields (e.g. a multiple subjects teaching credential). The Infant/Toddler Lab and CSUSB Children's Center are integral components of this track, and are used as observation and practicum sites for students. Students selecting this track may also earn Child Development Master Teacher and Site Supervisor Permits (i.e., early childhood teaching and administrative credentials).

The School Age Track is designed for students who plan to pursue an elementary teaching credential. This track is comprised of two components: 1) general education requirements, and 2) child development coursework designed to prepare students with a solid foundation in child growth and development. The latter includes coursework in child assessment, child guidance, developmentally-appropriate practices with children, cognitive development, individual differences in learning style, the value of play, parenting and family relations, and exceptional development.

The Life-Span Track is designed for students who wish to obtain a broad interdisciplinary background of human development and behavior across the life span.

A dual-degree program in Psychology and Human Development is also available for students seeking a combined program of study.

This program may be especially suited for students planning to pursue careers in working with children and families, adult services, and also for those planning on pursuing graduate study in child or developmental psychology, clinical or counseling psychology, child or human development, or social work. See the human development coordinator for more information.

## B.A. IN HUMAN DEVELOPMENT - CHILD DEVELOPMENT TRACK

### Requirements (95 units)

**Total units required for graduation: 180**

### Requirements to enter the B.A. in Human Development - Child Development Track:

1. Completion of the following:
  - General Education Basic Skills in English (A1)  
ENG 101. Freshman Composition
  - General Education Basic Skills in Mathematics (A3)  
One of the following:  
MATH 110. College Algebra  
MATH 115. The Ideas of Mathematics  
MATH 120. Pre-Calculus Mathematics  
MATH 192. Methods of Calculus  
MATH 211. Basic Concept of Calculus
  - One of the following:  
HD 240. Introduction to Child Development  
PSYC 201. Developmental Psychology
  - PSYC 210. Psychological Statistics or its equivalent
2. Students may earn no grade lower than a "C" (2.0) in each of these courses.

The Office of Records, Registration & Evaluations will change the student's status once the above requirements have been met. Discrepancies should be reported to the Office of Records, Registration & Evaluations

### Requirements for the B.A. in Human Development - Child Development Track:

Lower-division requirements (40 units)

1. BIOL 100. Topics in Biology (5)
2. HD 240. Introduction to Child Development (4)
3. Two units chosen from:
  - HD 245. Observation and Methods in Child Development: Early Childhood (2)
  - HD 246. Observation and Methods in Child Development: Middle Childhood (2)
  - HD 247. Observation and Methods in Child Development: Adolescence (2)
4. HD 270. Infant and Toddler Development (4)
5. Choose either A or B:
  - Group A**
    - HD 271. Group Education and Care of Infants and Toddlers (4)
    - HD 272. Curriculum and Programs for Infants and Toddlers (4)
  - Group B**
    - HD 281. Guidance of Young Children (4)
    - HD 282. Early Childhood Curriculum and Programs (4)
6. HD 280. Early Childhood Development (4)
7. HD 291. Interactions with Young Children: Laboratory (2)
8. HD 292. Curriculum and Programs: Laboratory (2)
9. PSYC 100. Introduction to Psychology (4)
10. PSYC 210. Psychological Statistics (5)



## Upper-division requirements (55 units)

- Four units chosen from:
  - ANTH 325. Human Biological Variation and Concept of Race (4)
  - ANTH 327. Primate Evolution and Ecology (4)
  - HD 302. History of Childhood (4)
  - HD 304. Theories of Play (4)
  - HD 305. Multicultural Child Development (4)
  - HD 520. Intergenerational Aspects of Human Development (4)
  - SOC 339. Socialization (4)
- Four units chosen from:
  - ANTH 330. Cross-Cultural Child-Rearing Practices (4)
  - ANTH 331. Anthropology of Human Development (4)
- HD 310. Applied Research Methods (4)
- HD 324. Developmental Psychobiology (4)
- HD 400. Child Assessment (5)
- HD 480. Advanced Human Development (4)
- Four units chosen from:
  - HD 575. Internship (4)
  - HD 585. Student Teaching in Early Childhood Education (4-10)
- Four units chosen from:
  - PSYC 303. Parenting and Family Relations (4)
  - SOC 340. Sociology of the Family (4)
- PSYC 311. Introduction to Experimental Psychology (6)
- Four units chosen from:
  - PSYC 320. Psychology of Middle Childhood (4)
  - PSYC 328. Psychology of Adolescence (4)
- Four units chosen from:
  - PSYC 350. Development of Exceptional Children (4)
  - PSYC 391. Psychopathology of Childhood (4)
- Eight units chosen from:
  - PSYC 305. Language Development (4)
  - PSYC 358. Cognitive Development (4)
  - PSYC 384. Personality and Social Development (4)

**B.A. IN HUMAN DEVELOPMENT -****School Age Track****Requirements (180 units)****Total units required for graduation: 180****BASIC PROGRAM (180 units)**

- Language Arts (28 units)
- Humanities and the Arts (16 units)
- Visual and Performing Arts (13 units)
- Mathematics and Sciences (38 units)
- Social and Behavioral Sciences (28 units)
- Lifelong Understanding, Physical Education and Health (10 units)
- Multicultural/Gender Category
- Child Development Core (47 units)

**PROGRAM TOTAL: 180 units**

All students choosing this track should give special attention to the following points before they begin their course work:

- Since this program contains a variety of choices, students should seek advisement as early as possible;
- By completing this track, students also can fulfill the general education requirements of the university;
- A course can be counted only once for credit within this track, except for courses which meet both capstone and multicultural requirements;
- With advisement and a careful selection of courses, students can also complete a second major in certain fields;
- Students who plan to seek a multiple subject teaching credential at CSUSB should achieve a minimum grade point average of at least 2.7.

**Requirements for the B.A. in Human Development - School Age Track****A. Language Arts Breadth Area (28 units)**

- Written Communication (G.E.)
  - ENG 101. Freshman Composition (4)
- Upper-division Writing Requirement (G.E.):
  - Four units chosen from (ENG 306. Expository Writing is recommended; but any of the following courses qualifies):
  - EDUC 306. Expository Writing for Education (4)
  - ENG 306. Expository Writing (4)
  - HUM 306. Expository Writing for the Humanities (4)
  - MGMT 306. Expository Writing for Administration (4)
  - NSCI 306. Expository Writing for the Natural Sciences (4)
  - SSCI 306. Expository Writing for the Social Sciences (4)

**Note:** This requirement also can be met by passing a proficiency examination. No unit credit is awarded for passing the examination. It may be necessary to take additional units to meet minimum residency and graduation unit requirements.

- Oral Communication (G.E.)
  - COMM 120. Oral Communication (4)
  - HON 104C.\* Language and Meaning: Oral Communication (4) (open only to Honors Program students)
- Literature (G.E.)
  - Four units chosen from:
    - ENG 110. World Literature I (4)
    - ENG 111. World Literature II (4)
    - ENG 160. World Drama (4)
    - ENG 170. Studies in Literature (4)
    - TA 160. World Drama (4)
    - TA 212. Oral Interpretation of Literature (4)
- Development of Language
  - ENG 311. The English Language (4)
- Analysis of Literature
  - Four units chosen from:
    - ENG 301A. Analysis of Poetry (4)
    - ENG 302A. Analysis of Drama (4)
    - ENG 303A. Analysis of Prose Fiction (4)
    - ENG 304A. Analysis of Nonfiction Prose (4)
    - TA 302A. Analysis of Drama (4)
- Children's Literature
  - Four units chosen from:
    - ENG 320. Children's Literature (4)
    - ENG 327. Literature for Adolescents and Young Adults (4)
- B. Humanities and the Arts Breadth Area (16 units)**
  - Critical Thinking (G.E.)
    - Four units chosen from:
      - COMM 180. Critical Thinking Through Argumentation (4)
      - HON 104A.\* Language and Meaning: Critical Thinking (4) (open only to Honors Program students)
      - MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)
      - PHIL 105. Critical Thinking Through Argument Analysis (4)
      - PHIL 200. Critical Thinking Through Symbolic Logic (4)
      - PSYC 105. Critical Thinking Through Problems Analysis (4)
      - SOC 180. Critical Thinking About Social Problems (4)
  - Philosophy (G.E.)
    - Four units chosen from:
      - HON 104B.\* Language and Meaning: Introduction to Philosophy (4) (open only to Honors Program students)
      - PHIL 190. Introduction to Philosophical Issues (4)
      - PHIL 191. Introduction to Ethics (4)
      - PHIL 192. Introduction to Philosophy of Religion (4)
      - PHIL 193. Introduction to Eastern Philosophy (4)
      - PHIL 194. Introduction to Knowledge and Reality (4)

**224 / Human Development****3. Foreign Language (G.E.)**

Four units chosen from:

- ARAB 150. College Arabic III (4)
- ARAB 214. Conversation in Arabic (4)
- ASL 150. American Sign Language III (4)
- FLAN 150. Intermediate Language Study (4)
- FREN 150. Intermediate French (4)
- FREN 200. Culture and Communication (4)
- FREN 201. Conversation and Composition I (4)
- FREN 202. Conversation and Composition II (4)
- GER 150. Intermediate German (4)
- GER 212. Composition (4)
- GER 214. Conversation (4)
- GER 216. Introduction to Literary Texts (4)
- JAPN 150. Intermediate Japanese (4)
- MAND 150. Intermediate Mandarin (4)
- SPAN 150. Intermediate Spanish (4)
- SPAN 155. Intermediate Spanish for Heritage/Native Speakers (4)
- SPAN 212. Composition (4)
- SPAN 213. Composition for Heritage/Native Speakers (4)
- SPAN 214. Conversation (4)

**4. Integrative Capstone in the Humanities (G.E.)**

Four units chosen from:

- HUM 319. Myth, Metaphor and Symbol (4)
- HUM 325. Perspectives on Gender (meets the requirement in category G1) (4)
- HUM 328. Asian Cultural Traditions (4)
- HUM 330. Arts and Ideas (4)
- HUM 335. The Origin and Contemporary Role of Latino Culture (meets the requirement in category G1) (4)
- HUM 340. Interpretation and Values (4)
- HUM 344. Ideas in American Culture (4)
- HUM 350. The Cultures of American Childhood (meets the requirement in category G1) (4)
- HUM 370. African Heritage in the Arts (meets the requirement in category G1) (4)
- HUM 375. The World of Islam (4)
- HUM 380. Comparative Studies in the Arts: East and West (meets the requirement in category G1) (4)
- HUM 385. A Cultural History of Fashion (4)

**Note:** Students can receive credit for only one of the following courses:

- HUM 325. Perspectives on Gender
- NSCI 325. Perspectives on Gender
- SSCI 325. Perspectives on Gender

**C. Visual and Performing Arts (13 units)****1. Four units in the arts (G.E.) chosen from:**

- ART 200. Studies in Art (4)
- MUS 180. Studies in Music (4)
- TA 260. Introduction to Theatre (4)

**2. Visual Arts Activity**

Three units chosen from

- ART 395. Art in the Classroom (3)
- ART 400. Teaching Art in the Elementary Classroom (4)

**3. Music Activity**

- MUS 370. Music for Elementary Classroom Teachers (3)

**4. Theatre Activity**

Three units chosen from:

- TA 481. Creative Drama in the Classroom (3)
- TA 484. Readers Theatre in the Classroom (3)
- TA 486. Puppetry in the Classroom (3)

**D. Mathematics and Sciences (38 units)****1. Ideas of Mathematics (G.E.)**

Four units chosen from:

- MATH 110. College Algebra (4)
- MATH 115. The Ideas of Mathematics (4)
- MATH 120. Pre-Calculus Mathematics (4)
- MATH 192. Methods of Calculus (4)
- MATH 211. Basic Concepts of Calculus (4)

**2. Fundamental Concepts of Mathematics for Educators (12 units)**

- MATH 301A. Fundamental Concepts of Mathematics for Educators A: Fundamentals of Arithmetic and Geometry (4)
- MATH 301B. Fundamental Concepts of Mathematics for Educators B: Transition from Concrete to Abstract in Algebra and Geometry (4)
- MATH 301C. Fundamental Concepts of Mathematics for Educators C: Further Developments in Algebra and Geometry (4)

**3. Life Science (G.E.)**

- BIOL 100. Topics in Biology (5)

**4. Physical Science (10 units) (G.E.)**

- CHEM 100. Chemistry in the Modern World (5)
- PHYS 100. Physics in the Modern World (5)

**5. Earth and Space Science**

Five units chosen from:

- ASTR 311. A Cosmic Perspective of Earth (5)
- GEOG 311. The Dynamic Earth (5)
- GEOL 309. Earth: The Blue Planet (5)

**6. Technology (G.E.)**

- CSCI 129. Science, Computing and Society (2)

**E. Social and Behavioral Sciences Breadth Area (28 units)****1. American Civilization (G.E.)**

Four units chosen from:

- HIST 146. American Civilization (4)
- HIST 200. United States History to 1877 (4)
- HIST 201. United States History, 1877 to the Present (4)

**2. American Government (G.E.)**

- PSCI 203. American Government (4)

**3. World Civilizations I (G.E.)**

Four units chosen from:

- ANTH 140. World Civilizations I, the Rise of Civilization (4)
- HIST 140. World Civilizations I, the Rise of Civilization (4)

**4. World Civilizations II (G.E.)**

- HIST 142. World Civilizations II, the Civilizations of the East and West (4)

**5. California History**

- HIST 270. History of California (4)

**6. Geography**

- GEOG 300. Geography in the Elementary and Middle School Classroom (4)

**7. Integrative Capstone in the Social and Behavioral Sciences (G.E.)**

Four units chosen from:

- SSCI 300. Nonwestern World (4)
- SSCI 304. Contemporary Latin America (4)
- SSCI 315. Cultural Adaptation: The Quest for Survival (4)
- SSCI 316. Race and Racism (meets the requirement in category G1) (4)
- SSCI 320. Understanding Capitalism (4)
- SSCI 321. Urbanization and the Urban Environment (4)
- SSCI 325. Perspectives on Gender (meets the requirement in category G1) (4)
- SSCI 345. Religious Expression in America (4)
- SSCI 350. Roots of Modern Racism in America (4) (meets the requirement in Category G1)

**Note:** Students may receive credit for only one of the following courses:

- HUM 325. Perspectives on Gender  
NSCI 325. Perspectives on Gender  
SSCI 325. Perspectives on Gender

#### F. Lifelong Understanding, Physical Education and Health (10 units)

- Physical Education (G.E.)  
Two units chosen from:  
KINE 101. Individual and Dual Activities (2)  
KINE 114. Physical Fitness and Conditioning Activities (2)  
KINE 120. Combative and Martial Arts Activities (2)  
KINE 121. Team Activities (2)  
KINE 137. Aquatic Activities (2)  
KINE 147. A Fitness Odyssey (2)  
KINE 149. Independent Activity Project (2)  
KINE 150. Dance Activities (2)
- Physical Fitness (G.E.)  
KINE 205. Foundations for Lifetime Fitness and Wellness (2)
- Movement Skills  
Four units chosen from:  
DAN 481. Creative Dance in the Classroom (4)  
KINE 352. Movement for Children (4)
- Health  
HSCI 100. Concepts in Health (2)

#### G. Multicultural/Gender Category (G.E.)

All students must take one upper-division course designated as meeting this requirement, chosen from groups 1 or 2 below:

- An appropriate Integrative capstone course in B4 or E7.  
HUM 325. Perspectives on Gender (4)  
HUM 328. Asian Cultural Traditions (4)  
HUM 335. The Origin and Contemporary Role of Latino Culture (4)  
HUM 350. The Cultures of American Childhood (4)  
HUM 370. African Heritage in the Arts (4)  
HUM 375. The World of Islam (4)  
HUM 380. Comparative Studies in the Arts: East and West (4)  
NSCI 325. Perspectives on Gender (4)  
SSCI 316. Race and Racism (4)  
SSCI 325. Perspectives on Gender (4)  
SSCI 350. Roots of Modern Racism in America (4)
- Upper-division general education elective courses that satisfy the Multicultural/Gender requirement:  
ANTH 325. Human Biological Variation and the Concept of Race (4)  
ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)  
COMM 304. Intercultural Communication (4)  
COMM 401. Gender, Race and Media (4)  
CJUS 451. Women and Crime (4)  
ECON 352. Political Economy of Poverty and Discrimination (4)  
ENG 314. American Indian Literature (4)  
HUM 460. Cultural Studies (4)  
MUS 308. Women in Music (4)  
MUS 309. Jazz History in America and African-American Culture (4)  
MUS 350. Music of World Cultures (4)  
PA 305. Organizations in Multicultural and Diverse Societies (4)  
PHIL 364. Philosophy of Race and Gender (4)  
PHIL 367. Gender and Philosophy (4)

- TA 462. African-American Theatre and Drama (4)  
TA 463. Asian Theatre (4)

#### H. Child Development Core (47 units)

- Child Development  
HD 240. Introduction to Child Development (4)
- Observations and Methods in Child Development  
To be taken concurrently with HD 240, two units chosen from:  
HD 245. Observation and Methods in Child Development: Early Childhood (2)  
HD 246. Observation and Methods in Child Development: Middle Childhood (2)  
HD 247. Observation and Methods in Child Development: Adolescence (2)
- Exceptional Child  
PSYC 350. Development of Exceptional Children (4)
- HD 281. Guidance of Young Children (4)
- HD 291. Interactions with Young Children: Laboratory (2)
- HD 282. Early Childhood Curriculum and Programs (4)
- HD 292. Curriculum and Programs: Laboratory (2)
- HD 304. Theories of Play (4)
- HD 324. Developmental Psychobiology (4)
- HD 400. Child Assessment (5)
- Four units chosen from:  
PSYC 303. Parenting and Family Relations (4)  
SOC 340. Sociology of the Family (4)
- PSYC 320. Psychology of Middle Childhood (4)
- PSYC 358. Cognitive Development (4)

### B.A. IN HUMAN DEVELOPMENT - LIFESPAN TRACK

#### Requirements (90 units)

**Total units required for graduation: 180**

#### Requirements to enter the B.A. in Human Development - Lifespan Track:

- Completion of the following:
  - General Education Basic Skills in English (A1)  
ENG 101. Freshman Composition
  - General Education Basic Skills in Mathematics (A3)  
One of the following:  
MATH 110. College Algebra  
MATH 115. The Ideas of Mathematics  
MATH 120. Pre-Calculus Mathematics  
MATH 192. Methods of Calculus  
MATH 211. Basic Concept of Calculus
  - One of the following:  
HD 240. Introduction to Child Development  
PSYC 201. Developmental Psychology
  - PSYC 210. Psychological Statistics or its equivalent
- Students may earn no grade lower than a "C" (2.0) in each of these courses.

The Office of Records, Registration & Evaluations will change the student's status once the above requirements have been met. Discrepancies should be reported to the Office of Records, Registration & Evaluations

#### Requirements for the B.A. in Human Development - Lifespan Track:

Lower-division requirements (13 units)

- BIOL 100. Topics in Biology (5)
- PSYC 100. Introduction to Psychology (4)
- PSYC 201. Developmental Psychology (4)

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Upper-division requirements (77-78 units)

1. Four units chosen from:
  - ANTH 325. Human Biological Variance and the Concept of Race (4)
  - ANTH 327. Primate Evolution and Ecology (4)
  - HD 302. History of Childhood (4)
  - HD 305. Multicultural Child Development (4)
  - HD 520. Intergenerational Aspects of Human Development (4)
  - SOC 339. Socialization (4)
2. ANTH 331. Anthropology of Human Development (4)
3. HD 324. Developmental Psychobiology (4)
4. HD 480. Advanced Human Development (4)
5. HD 575. Internship (4)
6. Four units chosen from:
  - PSYC 303. Parenting and Family Relations (4)
  - SOC 340. Sociology of the Family (4)
7. PSYC 358. Cognitive Development (4)
8. PSYC 384. Personality and Social Development (4)
9. Developmental Periods (12 units)
  - Twelve units from A, B, and C:
    - A. Four units chosen from:
      - HD 270. Infant and Toddler Development (4)
      - HD 280. Early Childhood Development (4)
    - B. Four units chosen from:
      - PSYC 320. Psychology of Middle Childhood (4)
      - PSYC 328. Psychology of Adolescent Development (4)
    - C. Four units chosen from:
      - PSYC 329. Psychology of Adulthood and Aging (4)
      - SOC 330. Social Gerontology (4)

Applications (12 units)

A minimum of 12 units chosen from A, B, and C:

- A. Four units chosen from:
  - HD 271. Group Education and Care of Infants and Toddlers (4)
  - HD 281. Guidance of Young Children (4)
  - HD 304. Theories of Play (4)
- B. Four units chosen from:
  - PSYC 350. Development of Exceptional Children (4)
  - PSYC 391. Psychopathology of Childhood (4)
- C. Four units chosen from:
  - HD 372. Psychology of Death and Dying (4)
  - HD 540. Work, Retirement and Leisure (4)
  - PSYC 387. Community Psychology (4)
  - PSYC 390. Abnormal Psychology (4)
  - SOC 330. Social Gerontology (4) if not previously taken above

Testing and Assessment (6 units)

- A. Two units chosen from:
  - HD 245. Observation and Methods in Child Development: Early Childhood (2)
  - HD 246. Observation and Methods in Child Development: Middle Childhood (2)
  - HD 247. Observation and Methods in Child Development: Adolescence (2)
- B. A minimum of four units chosen from:
  - HD 400. Child Assessment (5)
  - HD 460. Adult Assessment (4)
  - PSYC 377. Tests and Measurements (4)

Statistics/Methodology (15 units)

- HD 310. Applied Research Methodology (4)
- PSYC 210. Psychological Statistics (5)
- PSYC 311. Introduction to Experimental Psychology (6)

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**DEPARTMENTAL HONORS**

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Students majoring in human development are eligible to receive honors in human development at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major;
3. An overall grade point average of 3.25 or better;
4. Completion of the three-quarter Honors Program with a grade of "B" (3.0) or better each quarter:
  - HD 597. Honors Seminar
  - HD 598A. Honors Project I
  - HD 598B. Honors Project II

Students interested in this recognition must file a formal application for enrollment in the Human Development Honors Program at the end of their junior year.

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**COURSE OFFERINGS IN  
HUMAN DEVELOPMENT (HD)**

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**Lower Division****240. Introduction to Child Development**

Comprehensive introduction to child development from conception through adolescence. Emphasis is on physical, cognitive, social, emotional and language development. (Also offered as PSYC 240. Students may not receive credit for both.) (4 units)

**245. Observation and Methods in Child  
Development: Early Childhood**

Introduction to observational methodologies and techniques used in the study of early childhood behavior. Students will observe, record, analyze and interpret early childhood behavior as they relate to developmental principles, theories and current research. Prerequisite or corequisite: HD 240. (2 units)

**246. Observation and Methods in Child  
Development: Middle Childhood**

Introduction to observational methodologies and techniques used in the study of middle childhood behavior. Students will observe, record, analyze and interpret middle childhood behavior as they relate to developmental principles, theories and current research. Prerequisite or corequisite: HD 240. (2 units)

**247. Observation and Methods in Child  
Development: Adolescence**

Introduction to observational methodologies and techniques used in the study of adolescent behavior. Students will observe, record, analyze and interpret adolescent behavior as they relate to developmental principles, theories and current research. Prerequisite or corequisite: HD 240. (2 units)

**270. Infant and Toddler Development**

Prenatal, neonatal, infant and toddler development through age two. Formerly PSYC 270. Prerequisite: PSYC 100 and current TB test. (4 units)

**271. Group Education and Care of Infants and  
Toddlers**

Issues related to group care of infants and toddlers, with an emphasis on relationships and appropriate interactions between infants/toddlers and their caregivers. Health, safety, nutrition, family-caregiver relationships, and components of physical space will also be addressed. Prerequisite: HD 270. (4 units)



**272. Curriculum and Programs for Infants and Toddlers**

Methods, materials and activities in group care settings for infants and toddlers. Prerequisites: HD 270, 271 and 291. (4 units)

**280. Early Childhood Development**

Physical, social, emotional, and intellectual development of the young child from ages two to eight. Prerequisites: PSYC 100 and current TB test. (4 units)

**281. Guidance of Young Children**

Child guidance theories and their implications for communicating and interacting with young children, for guiding child behavior, and for designing early childhood settings. Formerly HD 281A. Prerequisite: HD 280. (4 units)

**282. Early Childhood Curriculum and Programs**

Methods, materials, and activities in early childhood education. Formerly HD 282A. Prerequisites: HD 281 and 291. (4 units)

**291. Interactions with Young Children: Laboratory**

Supervised experience focusing on developmentally appropriate practices in communicating and interacting with young children and guiding child behavior. Six hours laboratory. Formerly HD 281B. Prerequisites: HD 270 or 280, concurrent or prior enrollment in either HD 271 or 281, and current TB test. (2 units)

**292. Curriculum and Program: Laboratory**

Supervised experience focusing on planning, implementing, and evaluating curriculum activities with young children. Six hours laboratory. Formerly HD 282B. Prerequisites: HD 271 or 281, concurrent enrollment in HD 272 or 282, and current TB test. (2 units)

**Upper Division****302. History of Childhood**

Historical survey of childhood within the contexts of family and society. (4 units)

**304. Theories of Play**

Interdisciplinary survey of theories of play and their applications to child development. Formerly HD 303. Prerequisite: HD 240 or PSYC 201. (4 units)

**305. Multicultural Child Development**

Theories of cultural and ethnic diversity and their applications to child development. (4 units)

**310. Applied Research Methods**

Overview of applied research methods in psychology and the behavioral sciences. Emphasis on the use of applied methods, their analyses, and scientific writing. Topics may include quasi-experimental design, correlational design, behavioral observation, archival analysis, single-case methodology, survey methodology, research ethics, library research strategies, and writing research reports. (Also offered as PSYC 310. Students may not receive credit for both.) Prerequisites: PSYC 100 and 210. (4 units)

**315. The School-Aged Child**

An interdisciplinary perspective of school-aged children's (5-12 years old) physical, cognitive, social and emotional development in educational settings. Emphasis will be placed on linking children's developmental characteristics with the school environment and developmentally-appropriate classroom practices. Requires five hours of observation and participation in a public elementary school classroom. Corequisite: EELB 310. (3 units)

**324. Developmental Psychobiology**

Psychobiological bases of human behavioral development throughout the life span. (Also offered as PSYC 324. Students may not receive credit for both.) Prerequisite: PSYC 100. (4 units)

**372. Psychology of Death and Dying**

A review of current theory and research on the psychology of grief, death and dying. (Also offered as PSYC 372. Students may not receive credit for both.) Prerequisite: PSYC 201 or equivalent. (4 units)

**400. Child Assessment**

Theory and procedures for assessing cognitive, social, and motor abilities in infants and children. Includes a practicum in administering and interpreting selected developmental screening tests. Four hours lecture and three hours practicum. (Also offered as PSYC 400. Students may not receive credit for both.) Prerequisites: one of the following: HD 240, 280, PSYC 201 or 240; and one of the following: HD 245, 246 or 247. (5 units)

**460. Adult Assessment**

Theory, issues, and procedures in assessment of physical, cognitive, social, and emotional functioning in adulthood and old age. Prerequisite: HSCI 423, PSYC 329, or SOC 330, or consent of instructor. (4 units)

**480. Advanced Human Development**

Theory and research on physical, social, psychological and cultural aspects of human development from an interdisciplinary perspective. Formerly HD 580. Prerequisites: senior standing, 12 units of course work in human growth and development. (4 units)

**513. Motivation and Behavior Management of Children**

Addresses developmentally-appropriate practices in motivating and sustaining school-aged children's interest, involvement, and appropriate conduct. Theories of achievement, motivation and research on student involvement will be addressed as they apply to classrooms where students differ in culture, gender, language, ethnicity, socioeconomic status, and handicapping conditions. Approaches to management of classroom resources and student behavior will be analyzed as students develop their own discipline plans. Five hours of observation/participation in a public elementary school classroom are required. Prerequisites: senior standing, EELB 310 and HD 315 or equivalent. (3 units)

**520. Intergenerational Aspects of Human Development**

Theory and research on the processes through which family members of different generations influence one another's development. (4 units)

**530. Issues in Early Childhood Education**

Current theories, research and methodology in early childhood education with an emphasis on practice with children and families. Formerly a topic under HD 582D. Prerequisite: upper-division or graduate status. (4 units)

**540. Work, Retirement and Leisure**

Theory and research on work, retirement, and leisure during the adult years. (Also offered as PSYC 540. Students may not receive credit for both.) Prerequisite: PSYC 100. (4 units)

**228 / Human Development****575. Internship**

Supervised work and study in private and public organizations. May be repeated once for credit. Only four units may be applied to upper-division credit in the Human Development major. Arrangements for the internship must be made during the quarter preceding the quarter in which the student plans on enrolling in this course (see Human Development coordinator). Graded credit/no credit. Prerequisites: consent of instructor and department. (4 units)

**582. Special Topics in Human Development**

An intensive study of selected topics related to human development. May be repeated for credit as topics change. Prerequisite: upper-division or graduate standing. (1-5 units)

**585. Student Teaching in Early Childhood Education**

Supervised teaching in early childhood education programs. Graded credit/no credit. Prerequisites: HD 272 or 282, and 292, consent of instructor and department and current TB test. (4-10 units)

**595. Independent Study**

Special topics involving literature or field study. A total of eight units of HD 595 may be applied toward graduation, of which a maximum of four units can be applied toward upper-division elective requirements in the major. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (2-4 units)

**597. Honors Seminar**

Provides an opportunity for students to develop an independent project under faculty supervision. Students will meet as a class to discuss their projects, as well as various advanced topics. Enrollment is limited to students whose formal application for departmental honors is approved. (Also offered as PSYC 597. Students may not receive credit for both.) Prerequisites: PSYC 311 and consent of department. (4 units)

**598. Honors Project**

Provides an opportunity for students to conduct an independent project under faculty supervision. Enrollment is limited to students whose formal application for departmental honors is approved. May not be used to satisfy the requirements of the human development major.

- A. I. (Also offered as PSYC 598A. Students may not received credit for both.) Prerequisites: PSYC 597 and consent of department. (2 units)
- B. II. (Also offered as PSYC 598B. Students may not received credit for both.) Prerequisites: PSYC 598A and consent of department. (2 units)

**Graduate level courses can be found on Page 462.**

# HUMAN SERVICES

## Department of Sociology

Social and Behavioral Sciences Building, Room 327  
(909) 537-5541 <http://csbs.csusb.edu/sociology/>

### Bachelor of Arts

Human Services

**Coordinator:** Randi Miller

Human Services is an interdisciplinary, career-oriented degree program drawing from sociology, psychology and health science. It is particularly suited to the paraprofessional person whose work role is that of a generalist who must serve in a variety of work settings and deal with a variety of human needs. Consequently, courses have been selected and designed to meet general occupational needs of human services personnel.

### B.A. IN HUMAN SERVICES

#### Requirements (74-75 units)

**Total units required for graduation: 180**

#### Requirements for the B.A. in Human Services:

Lower-division requirements (13 units)

1. HSCI 120. Health and Society: An Ecological Approach (5)
2. PSYC 100. Introduction to Psychology (4)
3. SOC 100. The Study of Society (4)

Human Development and Behavior (20 units)

1. PSYC 201. Developmental Psychology (4)
2. PSYC 390. Abnormal Psychology (4)
3. SOC 340. Sociology of the Family (4)
4. SOC 354. Deviant Behavior (4)
5. Four units chosen from:  
SOC 410. Sociology of Race and Ethnicity (4)  
PSYC 345. Cross-Cultural Psychology (4)

Delivery of Human Services (8 units)

1. Four units chosen from:  
HSCI 271. Introduction to Public Health (4)  
PSYC 387. Community Psychology (4)
2. SOC 434. Community Organization (4)

Human Services Practice (16 units)

1. Sixteen units chosen from:  
ANTH 330. Cross-Cultural Child-Rearing Practices (4)  
HSCI 301. Principles of Health Education for Health Educators (4)  
HSCI 342. Nutrition for Your Health (4)  
HSCI 364. Drug and Alcohol Use and Abuse (4)  
HSCI 404. Women's Health Issues (4)  
HSCI 423. Health and Wellness of Older Adults (4)  
HSCI 440. Family Health Issues for Educators (4)  
HSCI 470. Health Behavior (4)  
HSCI 489. Pre-Field Experience (2)  
PSYC 329. Psychology of Adulthood and Aging (4)  
PSYC 331. The Psychology of Women (4)  
PSYC 333. Drugs and Behavior (4)  
PSYC 351. Behavior Modification: Principles and Applications (4)  
PSYC 391. Psychopathology of Childhood (4)

- SOC 330. Social Gerontology (4)
- SOC 343. Sociology of Family Violence (4)
- SOC 352. Juvenile Offender (4)
- SOC 355. Medical Sociology (4)
- SOC 356. Sociology of Mental Illness (4)
- SOC 418. Sociology of Social Welfare (4)
- SOC 444. Sociology of Gender (4)

Practice Methods (4 units)

1. Four units chosen from:  
PSYC 315. Communication Processes (4)  
SOC 484. Social Casework (4)

Research Skills (5-6 units)

1. Five to 6 units chosen from (the following courses require a prerequisite):  
HSCI 498. Undergraduate Research Methodology in Health Science (5)  
PSYC 311. Introduction to Experimental Psychology (6)  
SOC 309. Social Research II (5)

Internship/Field Study (8 units)

A two quarter sequence of internship to be selected in consultation with an advisor to correspond with previous course work and career goals.

**Note:** All internship/field study units must be taken in the same department.

1. A minimum eight units chosen from:  
PSYC 575. Internship in Psychology (4) for a total of (8)  
SOC 575. Internship in Sociology (4) for a total of (8)

### HONORS IN THE MAJOR

Students majoring in human services are eligible to receive honors in human services at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major, both at this university and overall;
3. An overall undergraduate grade point average of 3.0 ("B") or better;
4. Completion of a senior project approved in advance by the program coordinator.

Students interested in receiving this recognition must initiate the process by making a formal application with the Sociology Department.

# HUMANITIES

## College of Arts and Letters

University Hall, Room 237 or 339  
(909) 537-5800 or 537-5869 <http://cal.csusb.edu/>

The university offers courses of an interdisciplinary nature, but no degree program under the humanities designation.

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### COURSE OFFERINGS IN HUMANITIES (HUM)

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#### Lower Division

##### 180. The Art of Film

Developing critical appreciation of film as a mode of artistic expression. Explores creative applications of photography, literature, performance, music and scripting through screening of films ranging from productions of major studios to works of avant-garde artists. (GE=C1) (4 units)

##### 197. Assessment Preparation I in Liberal Studies

Introduction to the Liberal Studies major and the requirements leading to a multiple subjects teaching credential. Procedures and preparation for the senior assessment. Graded credit/no credit. (1 unit)

#### Upper Division

##### 306. Expository Writing for the Humanities

Writing related to the humanities including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. No more than one of the expository writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly HUM 495. Graded A, B, C/no credit. Prerequisites: ENG 101 and a minimum of 90 quarter (60 semester) units of college credit. (GE=F1) (4 units)

##### 319. Myth, Metaphor and Symbol

Nature and function of myth and mythmaking; ways in which figurative language is used in different disciplines to create models for understanding the world and human experience. Prerequisite: junior or senior standing. (GE=C5) (4 units)

##### 325. Perspectives on Gender

This interdisciplinary course uses scientific, humanistic and social science perspectives to foster an understanding of how gender roles in Western culture are established, maintained and changed. (Also offered as SSCI 325 and NSCI 325. Students may receive credit for only one of these courses.) Prerequisite: junior or senior standing. (GE=C5, G1) (4 units)

##### 328. Asian Cultural Traditions

Cultural issues in Asia, such as religion and philosophy, literature, the arts and expressive traditions, as well as gender and identity. (GE=C5,G1) (4 units)

##### 330. Arts and Ideas

An interdisciplinary exploration of the interaction between fundamental ideas (truth, goodness, beauty, freedom, equality, justice) and the arts (music, literature, painting, sculpture) in various Western cultures, as seen from philosophical, religious and historical perspectives. Prerequisite: junior or senior standing. (GE=C5) (4 units)

##### 335. The Origin and Contemporary Role of Latino Culture

An exploration of the birth of Latino culture in Spain and its continued development in Latin America and the United States as seen in literature, art, music, and philosophy. Prerequisite: junior or senior standing. (GE=C5, G1) (4 units)

##### 340. Interpretation and Values

Investigation of different ways in which people find the meaning, or meanings, in texts or events. Alternative theoretical approaches applied to specific literary, artistic, legal, religious and historical examples. Prerequisite: junior or senior standing. (GE=C5) (4 units)

##### 344. Ideas in American Culture

An examination of recurring ideas in American culture, from Colonial times to the present, as seen in literature, art and thought. Prerequisite: junior or senior standing. (GE=C5) (4 units)

##### 350. The Cultures of American Childhood

An exploration of the ways childhood has been defined by biological, theoretical, cultural and social means in the United States. Special emphasis on the changing notions of childhood in terms of pop culture and the increasingly multiethnic landscape of America. (GE=C5, G1) (4 units)

##### 370. African Heritage in the Arts

The various threads of African culture (religion, myth, philosophy, literature, painting, sculpture, music) are traced from their origin on the African continent through their impact in the Americas from the 16th century to the present. Prerequisite: junior or senior standing. (GE=C5, G1) (4 units)

##### 375. The World of Islam

Exploration of Islam as a religion, a philosophy and value system, indeed, as a way of life in a variety of cultures, totalling more than one billion people around the globe, including the arts and literature as well as theological, philosophical, and social perspectives. Prerequisite: junior or senior standing. (GE=C5, G1) (4 units)

##### 380. Comparative Studies in the Arts: East and West

Explores the interplay of key ideas of religion and philosophy in literature, painting, music and film in selected Asian cultures as contrasted with analogous ideas and artistic genres in the West. Prerequisite: junior or senior standing. (GE=C5, G1) (4 units)

##### 385. A Cultural History of Fashion

The history of clothing and its relation to other arts as a form of self-expression within shifting sociocultural circumstances. Prerequisite: junior or senior standing. (GE=C5) (4 units)

##### 397. Assessment Preparation II in Liberal Studies

Continuation of assessment planning in Liberal Studies. Includes initial assessment of General Education requirements and selection of a concentration and its integration into the program of study. Review of progress on portfolios. Graded credit/no credit. Prerequisites: HUM 197 and completion of at least 90 units in the B.A. in Liberal Studies. (1 unit)



**425. Integrative Seminar in Asian Studies**

Advanced interdisciplinary and integrative study of issues in Asian philosophy, literature, the arts and other aspects of culture. (4 units)

**450. Aspects of Chicana/o Culture**

An exploration of the cultural, political and social values of the Chicana/o community as reflected in Chicana/o literature, fine and public arts, music, teatro and film. Formerly IS 460. (4 units)

**460. Cultural Studies**

Aspects of culture, language and civilization of selected ethnic groups within the United States and their contributions to American society; special attention to gender issues. (GE=C5) (4 units)

**496. Selected Topics in Humanities**

Seminar in special topics chosen from arts or humanities. May be repeated for credit as topics change. (4 units)

**497. Senior Assessment**

Written examination of selected topics covered in the upper-division courses of the major. Generally assumes 30 hours of preparation and supervised review. May be repeated twice for credit. Graded credit/no credit. Prerequisite: senior standing. (1 unit)

**499. Methods and Materials in the Teaching of Humanities**

Integration of educational philosophy and pedagogical concepts with the specific teaching materials of disciplines in the humanities. This course may not be counted toward fulfilling requirements of courses in the majors below. May be repeated for credit as topics change. Prerequisites: ESEC 332, senior or graduate standing and admission to the single subject credential program.

- A. Art (4 units)
- B. Foreign Languages (4 units)
- C. English (4 units)
- D. Music (4 units)
- E. Theatre Arts (4 units)
- F. Humanities (4 units)

**500. Current Ideas and Issues in Latin America**

An interdisciplinary exploration of the cultural, social, historical, and political contexts of Latin America in the 20th century. Serves as a culminating experience in the Latin American Studies Minor. Topics include the relationship between "high" and popular cultures, the role of history in the interplay between the various regions of the continent, the impact of mass media on cultural production, and recent political developments. Prerequisite: consent of instructor or completion of 16 units of interdisciplinary studies or Latin American Studies Minor.

- A. I. Taught in English. (4 units)
- B. II. Taught in Spanish. (4 units)

**575. Internship in Service Learning**

Supervised intensive work that requires advanced skills in the humanities in private or public organizations. Generally assumes 30 hours of work/study per unit of credit. A total of eight units may be applied toward graduation. Graded credit/no credit. Prerequisite: one upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor. (1-5 units)

**577-581. International Experience**

Written research project based on student's international experience. Research for the project will be completed in the country of choice. A written proposal for the project must be submitted for approval to program coordinator or instructor in advance of the quarter in which the project is to be completed. Graded credit/no credit. Prerequisite: junior standing or consent of instructor. (1-6 units)

**577. International Experience: Spanish****578. International Experience: Asian Studies****579. International Experience: French****580. International Experience: Arabic****581. International Experience: Portuguese****595. Independent Study in Humanities**

Advanced study in the Humanities. May be repeated for credit. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, including approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. A total of eight units may be applied toward graduation. (1-4 units)

**597. Senior Assessment in Liberal Studies**

Liberal Studies students will complete and submit their portfolios for evaluation. A reflective essay on required aspects of subject matter preparation is a required component and is used to introduce the portfolio. Required for graduation. Graded credit/no credit. Prerequisites: HUM 397 and completion of at least 135 units in the B.A. in Liberal Studies. (2 units)

**Graduate level courses can be found on Page 463.**

# INFORMATION MANAGEMENT

## Department of Information and Decision Sciences

Jack Brown Hall, Room 460  
(909) 537-5723 <http://ids.csusb.edu/>

**FACULTY:** Sunny Baker, Anthony Coulson, Nicole Garcia, Frank Lin, Tapie Rohm, Tonia San Nicolas-Ricco, Conrad Shayo, Walt Stewart (Chair), Bob Wilson, Jake Zhu

The university offers concentrations in information management within the Bachelor of Arts in Administration, the Bachelor of Science in Administration and the Master of Business Administration. The details of these programs are listed under Administration on Page 71. The Master of Business Administration can be found on Page 365. The courses listed below are offered in support of these programs. Further information is available from the Department of Information and Decision Sciences.

### COURSE OFFERINGS IN INFORMATION MANAGEMENT (INFO)

#### Lower Division

##### 102. Introduction to Information Technology

Effects of information technology on society presenting methods, practices and principles that develop information technology and information systems. No computer background required. May not be taken for credit by students who have received credit for INFO 101. (2 units)

##### 103. Using Information Technology Applications

Use of information technology tools, such as presentation, database, spreadsheet and word processing software. One hour lecture and two hours activity laboratory. No previous computer background required. Materials fee required. May not be taken for credit by students who have received credit for INFO 101. (2 units)

##### 150. Web Publishing

Basic web page development and web site planning. Topics include web site planning, web page design and HTML. Students will demonstrate proficiency in web design tools, skills and practices. Prerequisites: INFO 102 and 103 or consent of instructor. (4 units)

##### 160. Computer Graphics for the Internet

Introduction to computer graphic design and tools for web page development. Topics include digital photography, graphic design, animation and digital sound for the Internet. Students will demonstrate proficiency in graphic design tools, skills and practices geared to digital and world wide web publishing. Prerequisites: INFO 102 and 103 or consent of instructor. (4 units)

##### 274. Data Base Management and Policies

Fundamentals of data base design and use. Topics include data base application in organizations, end user needs analysis, logical data base design, data integrity and data base security. Students design and create working applications using a popular business data base program. Information classification, management and disposal practices are explored. Prerequisites: INFO 102 and 103 or consent of instructor. (4 units)

##### 275. Information Networking and Security

Data communications field for the business student including the introductory topics of hardware, software, protocols, channels, modems, local area networks, wide area networks and various applications. Students will gain hands-on experience with current popular data communication systems. Security concepts including policies, access control and network assessment are covered. Prerequisites: INFO 102 and 103 or consent of instructor. (4 units)

##### 276. Systems Analysis and Design

Traditional systems analysis and design methods and tools, including the role of the systems analyst, feasibility studies, modeling technique systems design, reporting and documentation, documentation standards, certification testing and system accreditation practices, and implementation strategies. Students will develop conceptual, analytical and practical skills in modeling organizational processes. Prerequisites: INFO 102 and 103 or consent of instructor. (4 units)

##### 280. Information Mapping and Data Visualization

Introduction to concepts and tools of data visualization. Together with traditional charting and graphing methods, students are introduced to the use of geographic information systems (GIS). Using spatial modeling tools and quantitative methods, the course provides students with practical applications for converting data into information. Prerequisites: INFO 102 and 103 or consent of instructor. (4 units)

##### 282. Business Systems I

An introduction to business system development in an object-oriented environment. Emphasizes object-oriented programming in a graphical user interface environment. Object-oriented concepts are applied to computer problem solving. Knowledge of computer programming is not essential. Prerequisites: INFO 102 and 103 or consent of instructor. (4 units)

##### 283. Business Systems II

An advanced study of information systems development in an object-oriented environment. Object-oriented concepts are applied to construction of computer solutions for business information systems. Knowledge of computer programming is essential. Prerequisite: INFO 282 or consent of instructor. (4 units)

#### Upper Division

Enrollment in upper division courses restricted to students who have met all prerequisites and have completed at least 90 quarter units (junior class level). Students who do not meet these requirements will be disenrolled.

##### 309. Information Management

Application of computer systems in organizations. Topics include information systems planning, information forecasting, information technology, information processing, information assurance and security, risk assessment, allocating resources and legal concepts. Prerequisites: INFO 102 and 103. (4 units)

##### 372. Information Technology

Basic computer hardware, software, maintenance and training technologies including hardware components, operating system functions, information systems maintenance strategies for the organization, and end-user training options. Security practices such as network access, data disposal, introductory forensics and facilities planning are also explored. Hands-on experience with different computer hardware, operating systems and software utilities. Prerequisite: INFO 309 or consent of instructor. (4 units)

**378. Information Problem Solving and Risk Management**

Systematic approaches to problem solving and decision making. Students will learn behavioral and organizational decision making processes relating to their roles as both manager and information systems designer. Topics include recognizing and defining the problem, troubleshooting, individual and group decision making, risk management, incident handling, threat assessment, allocating resources, and implementation strategies. Prerequisite: INFO 309 or consent of instructor. (4 units)

**474. Advanced Data Base Management and Information Assurance**

Advanced computer data base concepts and skills including: data modeling, Structured Query Language (SQL), and client-server applications. Also covers Data Base System Administration issues: data certification/classification, life cycle, access control, and legal requirements. Students will create applications using an advanced data base program package. Prerequisites: INFO 274 and 309, or consent of instructor. (4 units)

**475. Advanced Information Networking and Security**

Advanced computer networking and their application in organizations. Students will learn current computer network strategies and create advanced network applications. Security emphasis includes threats and countermeasures, wireless security, security requirements, access control practices. Prerequisites: INFO 275 and 309, or consent of instructor. (4 units)

**476. Advanced Systems Analysis and Design**

Advanced analysis, design and implementation of information systems for organizations, including data, process and network modeling techniques; structured, information engineering and object-oriented approaches to systems design; systems testing methods; documentation standards, certification testing and system accreditation practices; copyright and legal issues; implementation strategies and project management. Prerequisites: INFO 276 and 309, or consent of instructor. (4 units)

**477. Decision Support Systems**

Formal information systems that support organizational decision making, including the strategy, framework, design, implementation and evaluation of decision support systems. Students will create and apply decision support systems to planning, coordinating, organizing, controlling and/or directing tasks. Also covered are the types of agreements that can be made and approvals that can be granted as part of certification and accreditation process within an agency. INFO 309 or consent of instructor. (4 units)

**479. Studies in Information Management**

Research and discussion of current topics, problems, research, employment opportunities, and developments in the computer and information management fields. Prerequisite: INFO 309. (4 units)

**480. Advanced Information Mapping and Visualization**

Advanced study in and implementation of data visualization methods. Integration of information mapping, forecasting and data base tools and concepts to solve problems and support decision making. Students will learn and apply a popular geographic information system (GIS) to typical organizational problems. Prerequisites: INFO 280 and 309, or consent of instructor. (4 units)

**485. E-Business**

Advanced technical and business skills for designing, developing and managing e-business applications. Topics include enterprise systems, business to business exchanges, and implementation strategies. Prerequisites: INFO 150 and 309, or consent of instructor. (4 units)

**490. Information Systems Planning and Policy**

Advanced study of information systems planning and policy formation for top management. Covers strategic use of information technology in organizations; the theory, methods and practices of enterprise systems planning; and design and implementation of information systems policy. Policy issues surrounding project management, information classification, IT audit, and legal issues related to privacy and security will also be covered. Prerequisites: completion of all other courses in chosen concentration program. (4 units)

**511. Information Assurance and Security**

Advanced study of information assurance and security including theory, methods, and practices used by federal and state agencies, and private sector best practices. Topics include: threat assessment, evidence collection, forensics, countermeasures, practices and law. Students will work in a simulated environment and will investigate crimes and experience various security scenarios. Data center practices for the purpose of audit, control and accreditation are explored. Formerly a topic under INFO 590. Prerequisites: INFO 309, and either 475 or 648; or consent of instructor. (4 units)

**575. Internship in Information Management**

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

**590. Seminar in Information Management**

An intensive study of some phase of information management to be developed by the instructor. May be repeated for credit as topics change. (4 units)

**595. Independent Study**

Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (2 or 4 units)

# INTERDISCIPLINARY STUDIES

The university offers a limited number of courses outside of its department and college structure.

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## COURSE OFFERINGS IN INTERDISCIPLINARY STUDIES (IS)

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### Lower Division

#### 101. Words and Ideas

A course combining ENG 101. Freshman Composition and PHIL 105. Critical Thinking Through Argument Analysis. Students must complete IS 101A and 101B before credit can be granted for either. IS 101A must be taken before 101B. Prerequisites: satisfactory score on the English Placement Test, or completion of the test and at least a grade of "C" in English 85 or 95.

- A. (4 units)
- B. (4 units)



# ISLAMIC AND MIDDLE EASTERN STUDIES

## Department of History

Social and Behavioral Sciences Building, Room 337  
(909) 537-5528 <http://csbs.csusb.edu/history/>

### Minor

Islamic and Middle Eastern Studies

### Certificate

Islamic and Middle Eastern Studies

**Coordinator:** Cheryl Riggs

## MINOR IN ISLAMIC AND MIDDLE EASTERN STUDIES

### Requirements (32 units)

#### Requirements for a minor in Islamic and Middle Eastern Studies:

##### Core Courses (16 units)

1. ANTH 358. Peoples of the Middle East (4)
2. HIST 383. Classical Islamic Civilization (4)
3. HUM 375. The World of Islam (4)
4. PSCI 308. Government and Politics of the Middle East (4)

##### Electives (16 units)

1. Sixteen units chosen from:  
ANTH 303. Prehistory of the Middle East and Europe (4)  
ARAB 216. Introduction to Literary Texts (4)  
ARAB 290. Arabic Literature in Translation (4)  
ARAB 370. Arabic Film and Culture (4)  
ENG 319. Studies in Literature (4) (when the topic is Contemporary Middle Eastern Literature, Contemporary Middle Eastern Fiction, Non-western Women Writers)  
  
HIST 330. Oral History (4) (when the topic is Middle Eastern)  
  
HIST 384. Modern Middle East (4)  
HIST 480. History of Christianity I (4)  
HIST 485. Arab Israeli Conflict (4)  
HIST 486. Modern Iran (4)  
HIST 487. Topics in Modern Middle Eastern History (4)  
HIST 491. Nationalism and Conflict in the Middle East (4)  
HIST 492. U.S. Media and the Middle East (4)  
HIST 493. Iran-U.S. Relations (4)  
PSCI 540. Seminar in Comparative Politics (4) (when the topic is Islamic/Middle East)

An Independent Study course (595) chosen in anthropology, English, history, humanities or political science on a Middle Eastern topic. (4)

## CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to: a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. See Page 58 for further certificate information.

### Certificate in Islamic and Middle Eastern Studies

#### Certificate Requirements (36 units):

##### Core Courses (16 units)

1. ANTH 358. Peoples of the Middle East (4)
2. HIST 383. Classical Islamic Civilization (4)
3. HUM 375. The World of Islam (4)
4. PSCI 308. Government and Politics of the Middle East (4)

##### Electives (20 units)

1. Twenty units chosen from:  
ANTH 303. Prehistory of the Middle East and Europe (4)  
ANTH 334. Anthropology and Film (4)  
ARAB 216. Introduction to Literary Texts (4)  
ARAB 290. Arabic Literature in Translation (4)  
ARAB 370. Arabic Film and Culture (4)  
ENG 319. Studies in Literature (4) (when the topic is Contemporary Middle Eastern Literature, Contemporary Middle Eastern Fiction, Non-western Women Writers)  
  
HIST 330. Oral History (4) (when the topic is Middle Eastern)  
  
HIST 380. World Religions (4)  
HIST 384. Modern Middle East (4)  
HIST 480. History of Christianity I (4)  
HIST 485. Arab Israeli Conflict (4)  
HIST 486. Modern Iran (4)  
HIST 487. Topics in Modern Middle Eastern History (4)  
HIST 491. Nationalism and Conflict in the Middle East (4)  
HIST 492. U.S. Media and the Middle East (4)  
HIST 493. Iran-U.S. Relations (4)  
PSCI 540. Seminar in Comparative Politics (4) (when the topic is Islamic/Middle East)  
  
PSCI 605. Topics in Strategy (4) (when the topic is Islamic/Middle East)  
  
SOC 606. Sociology of Terrorism (4)  
An Independent Study course (595) chosen in anthropology, English, history, humanities or political science on an Islamic/Middle Eastern topic. (4)  
**NOTE:** 600-level courses are not available for undergraduate students.

# KINESIOLOGY

## Department of Kinesiology

Health and Physical Education Building, Room 120  
(909) 537-5349 <http://kine.csusb.edu/>

### Bachelor of Science

- Kinesiology
- Exercise Science
- Pedagogy
- Pre-Physical Therapy

### Teaching Credential Programs

- Adapted Physical Education Specialist Credential  
(Offered through the College of Education.)
- Single Subject

### Master of Arts

- Education - Kinesiology Option  
(Degree requirements can be found on Page 403.)

### Minor

- Kinesiology
- Recreation

### Certificate Programs

- Coaching
- Fitness Management
- Recreation Leadership

**FACULTY:** Sarah Boeh, Robert Carlson, Jerry Freischlag (Emeritus), Chris Grenfell, Bryan Haddock, Stephen Kinzey, Carolyn Martin (Emeritus), Aaron Moffett, Hyun-Kyoung Oh, Greg Price, Reg Price (Emeritus), Terry Rizzo (Chair), Shannon Siegel, Cliff Singh, Hosung So, Linda Wilkin

The Department of Kinesiology offers a curriculum leading to a Bachelor of Science degree with a major in kinesiology. In addition, a minor in kinesiology, a minor in recreation, an adapted physical education specialist credential and a single subject teaching credential are offered. The credentials are offered through the College of Education.

The major in kinesiology is designed for the student preparing to:

1. Become a physical education teacher;
2. Select a career in nonteaching fields related to physical activity, such as commercial physical fitness, sport business, research and development, or commercial leisure services;
3. Pursue graduate work in kinesiology or related disciplines.

## B.S. IN KINESIOLOGY - EXERCISE SCIENCE

### Requirements (86-87 units)

#### Total Requirements for Graduation (180)

#### Requirements for the B.S. in Kinesiology - Exercise Science Concentration:

Lower-division requirements (30 units)

1. BIOL 223. Human Physiology and Anatomy I (5)
2. BIOL 224. Human Physiology and Anatomy II (5)
3. KINE 200. First Aid (2)
4. A minimum of five units chosen from:
  - CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
  - CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
5. KINE 210A. Introduction to Kinesiology (2)

6. KINE 240. Exercise Science Software (2)
7. KINE 254. Field Experience (2)
8. KINE 270. Introduction to Fitness and Testing (2)
9. Five units chosen from:
  - PHYS 100. Physics in the Modern World (5)
  - PHYS 121. Basic Concepts of Physics I (5)
  - PHYS 221. General Physics I (5)

Upper-division requirements (56 units)

1. KINE 305. Prevention and Treatment of Sports Injuries (4)
2. KINE 310. History and Philosophy of Physical Activity (4)
3. Affective / Social Domain  
Four units chosen from:
  - KINE 323. Sociology of Physical Activity (4)
  - KINE 324. Psychology of Physical Activity (4)
4. KINE 325. Motor Development Across the Lifespan (2)
5. KINE 360. Physical Activity and Aging (2)
6. KINE 370. Measurement and Statistics in Kinesiology (4)
7. KINE 382. Nutrition for Health, Fitness and Sports (4)
8. KINE 410. Motor Control and Skill Learning (4)
9. KINE 471. Exercise Science Program Management (4)
10. KINE 480. Biomechanics (5)
11. KINE 481. Exercise Physiology (5)
12. KINE 483. Exercise Prescription (4)
13. KINE 485. EKG Interpretation (2)
14. KINE 486. Instrumentation in Exercise Science (2)
15. KINE 488. Legal Issues in Exercise Science (2)
16. KINE 490. Senior Seminar in Kinesiology (2)
17. KINE 493. Internship (2)

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## B.S. IN KINESIOLOGY - PEDAGOGY

### Requirements (82 units)

#### Total Requirements for Graduation (180)

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#### Requirements for the B.S. in Kinesiology - Pedagogy Concentration:

Lower-division requirements (36 units)

1. BIOL 223. Human Physiology and Anatomy I (5)
2. BIOL 224. Human Physiology and Anatomy II (5)
3. KINE 210A. Introduction to Kinesiology (2)
4. KINE 210B. Introduction to Kinesiology: Adapted Physical Education (2)
5. KINE 254. Field Experience (2)
6. KINE 261C. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Dance (2)
7. KINE 261F. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Gymnastics (2)
8. KINE 261H. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Swimming (2)
9. Individual and Dual Sports/Movement Forms  
Two units chosen from:
  - KINE 261B. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Badminton (2)
  - KINE 261G. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Racquetball (2)
  - KINE 261J. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Tennis (2)
10. Individual and Dual Sports/Movement Forms  
Two units chosen from:
  - KINE 261E. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Golf (2)

- KINE 261K. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Track and Field (2)
- KINE 261L. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Aerobic Exercise (2)
- KINE 261M. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Martial Arts (2)
- KINE 261N. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Strength and Conditioning (2)
- KINE 261O. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Yoga (2)
11. Team Sports  
Eight units chosen from:
- KINE 263A. Professional Activity Preparation of Team Sports: Basketball (2)
- KINE 263B. Professional Activity Preparation of Team Sports: Football (Flag) (2)
- KINE 263C. Professional Activity Preparation of Team Sports: Soccer (2)
- KINE 263D. Professional Activity Preparation of Team Sports: Softball (2)
- KINE 263E. Professional Activity Preparation of Team Sports: Volleyball (2)
11. KINE 270. Introduction to Fitness and Testing (2)

#### Upper-division requirements (46 units)

1. KINE 305. Prevention and Treatment of Sports Injuries (4)
2. KINE 310. History and Philosophy of Physical Activity (4)
3. KINE 323. Sociology of Physical Activity (4)
4. KINE 324. Psychology of Physical Activity (4)
5. KINE 325. Motor Development Across the Lifespan (2)
6. KINE 370. Measurement and Statistics in Kinesiology (4)
7. KINE 410. Motor Control and Skill Learning (4)
8. KINE 472. Program Design in Physical Education (4)
9. KINE 473. Instructional Strategies in Physical Education (4)
10. KINE 479. Qualitative Biomechanics (5)
11. KINE 481. Exercise Physiology (5)
12. KINE 490. Senior Seminar in Kinesiology (2)

### B.S. IN KINESIOLOGY - PRE-PHYSICAL THERAPY

#### Requirements (90-92 units)

#### Total Requirements for Graduation (180)

#### Requirements for the B.S. in Kinesiology - Pre-Physical Therapy Concentration

##### Lower-division requirements (54-56 units)

1. A minimum of five units in biology with a laboratory component must be taken. Only BIOL 100. Topics in Biology or BIOL 202. Biology of Populations satisfies the University's Life Science requirement.
2. BIOL 223. Human Physiology and Anatomy I (5)
3. BIOL 224. Human Physiology and Anatomy II (5)
4. CHEM 215. General Chemistry I (6)
5. CHEM 216. General Chemistry II (6)
6. KINE 210A. Introduction to Kinesiology (2)
7. KINE 254. Field Experience (2)
8. KINE 270. Introduction to Fitness and Testing (2)
9. MATH 192. Methods of Calculus (4)

##### 10. Physics:

A minimum of thirteen units chosen from Group A or B:

##### Group A

- PHYS 121. Basic Concepts of Physics I (5)
- PHYS 122. Basic Concepts of Physics II (4)
- PHYS 123. Basic Concepts of Physics III (4)

##### Group B

- PHYS 221. General Physics I (5)
- PHYS 222. General Physics II (5)
- PHYS 223. General Physics III (5)

##### 11. PSYC 100. Introduction to Psychology (4)

#### Upper division requirements (36 units)

1. KINE 305. Prevention and Treatment of Sports Injuries (4)
2. KINE 310. History and Philosophy of Physical Activity (4)
3. KINE 325. Motor Development Across the Lifespan (2)
4. KINE 360. Physical Activity and Aging (2)
5. KINE 370. Measurement and Statistics in Kinesiology (4)
6. KINE 410. Motor Control and Skill Learning (4)
7. KINE 480. Biomechanics (5)
8. KINE 481. Exercise Physiology (5)
9. KINE 490. Senior Seminar in Kinesiology (2)
10. PSYC 390. Abnormal Psychology (4)

### ADAPTED PHYSICAL EDUCATION SPECIALIST CREDENTIAL

#### Requirements (16 units)

#### Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Adapted Physical Education Specialist Credential program requires the following:

1. A valid California teaching credential authorizing the teaching of physical education.

#### Recommendation for the Adapted Physical Education Credential:

In addition to completing the adapted physical education program requirements and credential coursework, the candidate must successfully complete the following requirements to receive a recommendation for the Adapted Physical Education Specialist Credential.

1. Verification of subject matter competence by one of the following:
  - a. completion of an equivalent California-approved single subject matter preparation program in physical education verified in writing by authorized personnel;
  - b. original verification of a passing score on the CSET examination for Physical Education;
  - c. completion of an approved subject matter preparation program offered on this campus or an approved subject matter preparation program at another California campus, verified in writing by authorized personnel;
2. Documentation of a minimum of 100 hours of fieldwork experience in Adapted Physical Education in compliance with the Standards of the California Commission for Teacher Credentialing;
3. Completion of student teaching in adapted physical education and physical education at:
  - a. CSUSB or an equivalent California campus with an approved single subject matter adapted physical education preparation program verified in writing by authorized personnel, or
  - b. a California Public School verified in writing by authorized personnel with one year of demonstrated effective teaching in adapted physical education;

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4. Completion of the final written exit examination and exit interview with the adapted physical education coordinator at CSUSB;
5. Consult the coordinator of adapted physical education for current information about this credential as pending state legislation may require curricular changes.

### Credential Requirements (16 units)

#### Upper-division requirements (16 units)

1. ESPE 530. Psychology and Education of Exceptional Individuals (4)
2. KINE 330. Movement Skill Assessment for Individuals with Disabilities (4)
3. Eight units chosen from:
  - KINE 331A. Topics in Adapted Physical Education: Adapted Aquatics (2)
  - KINE 331B. Topics in Adapted Physical Education: Physical Disabilities (2)
  - KINE 331C. Topics in Adapted Physical Education: Disabilities in Learning (2)
  - KINE 331D. Topics in Adapted Physical Education: Disabilities in Communication (2)
  - KINE 331E. Topics in Adapted Physical Education: Severe and Profound Disabilities (2)

### **SINGLE SUBJECT TEACHING CREDENTIAL**

The Bachelor of Science in Kinesiology is approved as a single subject matter teaching credential program. In addition to the requirements of the major, students must complete certain prerequisites to the teacher education program. For information about the professional education component, admission to the teacher education program or specific requirements for the single subject matter waiver program, see Page 157 or contact the Credentials Office, CE-102.

### **MINOR IN KINESIOLOGY**

#### Requirements (43 units)

#### Requirements for a minor in Kinesiology:

##### Lower-division requirements (26 units)

1. BIOL 223. Human Physiology and Anatomy I (5)
2. BIOL 224. Human Physiology and Anatomy II (5)
3. KINE 210A. Introduction to Kinesiology (2)
4. KINE 254. Field Experience (2)
5. Eight units chosen from:
  - KINE 261A. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Archery (2)
  - KINE 261B. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Badminton (2)
  - KINE 261C. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Dance (2)
  - KINE 261E. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Golf (2)
  - KINE 261F. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Gymnastics (2)
  - KINE 261G. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Racquetball (2)
  - KINE 261H. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Swimming (2)

- KINE 261J. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Tennis (2)
- KINE 261K. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Track and Field (2)
- KINE 261L. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Aerobic Exercise (2)
- KINE 261M. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Martial Arts (2)
- KINE 261N. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Strength and Conditioning (2)
- KINE 261O. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Yoga (2)
- 6. Four units chosen from:
  - KINE 263A. Professional Activity Preparation of Team Sports: Basketball (2)
  - KINE 263B. Professional Activity Preparation of Team Sports: Football (Flag) (2)
  - KINE 263C. Professional Activity Preparation of Team Sports: Soccer (2)
  - KINE 263D. Professional Activity Preparation of Team Sports: Softball (2)
  - KINE 263E. Professional Activity Preparation of Team Sports: Volleyball (2)

##### Upper-division requirements (17 units)

1. KINE 305. Prevention and Treatment of Sports Injuries (4)
2. Four units chosen from:
  - KINE 323. Sociology of Physical Activity (4)
  - KINE 324. Psychology of Physical Activity (4)
3. Four units chosen from:
  - KINE 471. Exercise Science Program Management (4)
  - KINE 472. Program Design in Physical Education (4)
4. KINE 481. Exercise Physiology (5)

### **MINOR IN RECREATION**

#### Requirements (24 units)

#### Requirements for a minor in Recreation:

##### Lower-division requirements (16 units)

1. KINE 200. First Aid (2)
2. KINE 203. Introduction to Recreation (4)
3. KINE 254. Field Experience (2)
4. KINE 271. Recreation Leadership (4)
5. KINE 277. Recreation Programming (4)

##### Upper-division requirements (8 units)

1. KINE 365. Outdoor Education and Camp Leadership (4)
2. KINE 471. Exercise Science Program Management (4)



## CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to: a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. See Page 58 for further certificate information.

### Certificate in Coaching

#### Certificate requirements (33 units)

Lower-division requirements (12 units)

1. KINE 200. First Aid (2)
2. Four units chosen from:
  - KINE 261A. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Archery (2)
  - KINE 261B. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Badminton (2)
  - KINE 261C. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Dance (2)
  - KINE 261E. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Golf (2)
  - KINE 261F. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Gymnastics (2)
  - KINE 261G. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Racquetball (2)
  - KINE 261H. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Swimming (2)
  - KINE 261J. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Tennis (2)
  - KINE 261K. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Track and Field (2)
  - KINE 261L. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Aerobic Exercise (2)
  - KINE 261M. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Martial Arts (2)
  - KINE 261N. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Strength and Conditioning (2)
  - KINE 261O. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Yoga (2)
3. Four units chosen from:
  - KINE 263A. Professional Activity Preparation of Team Sports: Basketball (2)
  - KINE 263B. Professional Activity Preparation of Team Sports: Football (Flag) (2)
  - KINE 263C. Professional Activity Preparation of Team Sports: Soccer (2)
  - KINE 263D. Professional Activity Preparation of Team Sports: Softball (2)
  - KINE 263E. Professional Activity Preparation of Team Sports: Volleyball (2)
4. KINE 267. Sports Officiating (2)

Upper-division requirements (21 units)

1. KINE 323. Sociology of Physical Activity (4)
2. KINE 324. Psychology of Physical Activity (4)
3. KINE 343. Methods and Techniques of Coaching (4)

4. KINE 472. Program Design in Physical Education (4)
5. KINE 480. Biomechanics (5)

### Certificate in Fitness Management

#### Certificate requirements (33 units)

1. KINE 305. Prevention and Treatment of Sports Injuries (4)
2. KINE 454. Field Experience II (3)
3. KINE 471. Exercise Science Program Management (4)
4. KINE 480. Biomechanics (5)
5. KINE 481. Exercise Physiology (5)
6. KINE 482. Contemporary Fitness Programs (4)
7. KINE 483. Exercise Prescription (4)
8. KINE 580. Exercise, Energy and Human Performance (4)

### Certificate in Recreation Leadership

#### Certificate requirements (31 units)

Lower-division requirements (20 units)

1. KINE 203. Introduction to Recreation (4)
2. KINE 271. Recreation Leadership (4)
3. KINE 277. Recreation Programming (4)
4. Four units chosen from:
  - KINE 137A. Aquatic Activities: Lifeguard training (2)
  - KINE 137C. Aquatic Activities: Basic and emergency water safety (2)
  - KINE 137D. Aquatic Activities: Boating and canoeing (2)
  - KINE 137F. Aquatic Activities: Scuba diving (2)
  - KINE 137G. Aquatic Activities: Skin diving (2)
  - KINE 137H. Aquatic Activities: Springboard diving (2)
  - KINE 137J. Aquatic Activities: Swimming (2)
  - KINE 137K. Aquatic Activities: Water polo (2)
5. Four units chosen from:
  - KINE 146A. Outdoor Skills Activities: Backpacking (2)
  - KINE 146B. Outdoor Skills Activities: Camping (2)
  - KINE 146C. Outdoor Skills Activities: Mountaineering (2)
  - KINE 146D. Outdoor Skills Activities: Orienteering (2)
  - KINE 146E. Outdoor Skills Activities: Survival skills (2)

Upper-division requirements (11 units)

1. KINE 365. Outdoor Education and Camp Leadership (4)
2. KINE 454. Field Experience II (3)
3. Four units chosen from:
  - KINE 471. Exercise Science Program Management (4)
  - KINE 472. Program Design in Physical Education (4)

## DEPARTMENTAL HONORS

A graduating senior will be awarded departmental honors in kinesiology after meeting the following requirements:

1. Earned a 3.5 grade point average in all kinesiology course work;
2. Earned a 3.0 ("B") grade point average overall;
3. Over one-half of the course work for the kinesiology major must be taken at California State University, San Bernardino;
4. Recommendation by the kinesiology faculty.

## KINESIOLOGY - BASIC INSTRUCTION ACTIVITY PROGRAM

### Kinesiology 101-150

The basic instruction program offers a wide variety of courses that provides students an opportunity to: participate in physical activity on a regular basis; develop, improve and maintain physical fitness; learn and practice lifetime sports skills; and acquire the knowledge that physical exercise is essential for healthful adult living in current society. Not all courses listed are offered each academic year.

**Kinesiology - Intercollegiate Athletics (160 and 190)**

These courses are designed for those students participating in intercollegiate sports. If a student does not become a member of a team, they will be dropped from the course.

**General education requirement for graduation:**

All students are required to complete a basic instruction activity course chosen from any one of the following categories:

- KINE 101. Individual and Dual Activities
- KINE 114. Physical Fitness and Conditioning Activities
- KINE 120. Combative and Marital Arts Activities
- KINE 121. Team Activities
- KINE 137. Aquatic Activities
- KINE 147. A Fitness Odyssey
- KINE 149. Independent Activity Project
- KINE 150. Dance Activities

Ten additional units of basic instruction activity courses (numbered 150 and below) for a total of twelve units maximum may be applied toward graduation. These units may be from courses in the same category.

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**COURSE OFFERINGS IN  
KINESIOLOGY (KINE)**

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**Lower Division**

The following activities include instruction at all skill levels unless specified in the *Class Schedule* as limited to beginning, intermediate or advanced level instruction.

**101. Individual and Dual Activities**

Development of basic skills, techniques, rules and strategies through instruction and practice in a variety of individual and dual type sports and activities. Graded ABC/no credit. (GE=E3)

- A. Archery (2 units)
- B. Badminton (2 units)
- C. Bicycling (Field trips required.) (2 units)
- D. Bowling (Field trips required.) (2 units)
- F. Golf (Field trips required.) (2 units)
- G. Gymnastics (2 units)
- N. Racquetball (2 units)
- P. Skiing-Alpine (Field trips required.) (2 units)
- Q. Skiing-Nordic (Field trips required.) (2 units)
- S. Tennis (2 units)

**114. Physical Fitness and Conditioning Activities**

Principles, practices and individual evaluation in a variety of fitness and conditioning activities. Graded ABC/no credit. (GE=E3)

- A. Body conditioning (2 units)
- B. Circuit training (2 units)
- C. Jogging (2 units)
- E. Weight training (2 units)
- F. Yoga (2 units)

**120. Somatic and Martial Arts Activities**

Instruction and practice in the basic skills and techniques utilized in selected somatic and martial arts movement forms. Graded ABC/no credit. (GE=E3)

- A. Aikido (2 units)
- B. T'ai Chi (2 units)
- C. Capoeira (2 units)
- D. Judo (2 units)
- E. Karate (2 units)
- F. Self-Defense (2 units)
- G. Cardio-Arts (2 units)
- H. Fencing (2 units)

- I. Wrestling (2 units)
- J. Pilates (2 units)
- K. Tae Kwon Do (2 units)
- L. Sampler (2 units)

**121. Team Activities**

Basic skills, techniques, rules and strategies of selected team sports achieved through participation. Graded ABC/no credit. (GE=E3)

- A. Basketball (2 units)
- C. Flag football (2 units)
- F. Soccer (2 units)
- G. Softball (2 units)
- J. Team handball (2 units)
- K. Volleyball (2 units)

**137. Aquatic Activities**

Instruction and practice of basic skills and techniques used in aquatic activities. Graded ABC/no credit. (GE=E3)

- A. Lifeguard training. (Red Cross certification available.) (2 units)
- C. Basic and emergency water safety. (Red Cross certification available.) (2 units)
- D. Boating and canoeing. (Field trips required. Red Cross certification available.) (2 units)
- F. Scuba diving. (Field trips required. NAUI certification available. Doctor's physical examination required.) Prerequisite: skin diving or consent of instructor. (2 units)
- G. Skin diving. (Field trips required. NAUI certification available.) (2 units)
- H. Springboard diving. (2 units)
- J. Swimming. (Red Cross certification available.) (2 units)
- K. Water polo. (2 units)
- L. Advanced Swimming for Fitness. Intended for those who have already taken an introductory swim class or who have prior swimming ability. Advanced swimming drill and lap swim workouts. (2 units)

**146. Outdoor Skills Activities**

Introduction to and practice of basic skills, equipment and safety techniques common to the spectrum of outdoor/wilderness activities. Field trips required. Graded ABC/no credit.

- A. Backpacking (2 units)
- B. Camping (2 units)
- C. Mountaineering (2 units)
- D. Orienteering (2 units)
- E. Survival Skills (2 units)

**147. A Fitness Odyssey**

A self-paced exercise program and/or plan of study for the mature adult. Programs designed to fit individual life style needs on a contract basis following examination of past and present activity patterns. Graded ABC/no credit. (GE=E3) (2 units)

**148. Leisure Sports**

Mild to moderately active leisure activities suited to the capabilities and interests of the mature adult. Graded ABC/no credit. (2 units)

**149. Independent Activity Project**

Activity project designed to satisfy individual needs of students who cannot meet requirements of a regular activity class due to a medical, physical or other conflict; under the supervision of a faculty member. Graded ABC/no credit. Prerequisite: consent of department chair. (GE=E3) (2 units)

**150. Dance Activities**

Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Graded ABC/no credit. Formerly KINE 141. (GE=E3)

- A. Aerobic (2 units)
- B. Low-Impact Aerobic (2 units)
- C. Step Aerobic (2 units)
- D. Ballet (2 units)
- E. Ethnic (2 units)
- F. Jazz (2 units)
- G. Modern (2 units)
- H. Tap (2 units)
- I. Country and Western (2 units)
- J. Sampler (2 units)
- K. Social (2 units)

**160. Women's Intercollegiate Activities**

Enrollment limited to members of intercollegiate sports teams. The intercollegiate activity units may not be substituted for physical education activity units in the undergraduate degree requirements. Volleyball, cross country, basketball, tennis, softball, water polo, soccer. Graded ABC/no credit. May be repeated. (2 units)

**190. Men's Intercollegiate Activities**

Enrollment limited to members of intercollegiate sports teams. The intercollegiate activity units may not be substituted for physical education activity units in the undergraduate degree requirements. Soccer, basketball, golf, baseball. Graded ABC/no credit. May be repeated. (2 units)

**200. First Aid**

Introduction to the emergency care and treatment of illnesses and injuries including training in cardiopulmonary resuscitation (CPR). May lead to certification in Standard First Aid from the American Red Cross and/or CPR from the American Heart Association. (KINE 200=CAN KINE/PE 8) (2 units)

**203. Introduction to Recreation**

Orientation to recreation as a profession. Meaning, content, history, philosophy and scope of the field of recreation. (4 units)

**205. Foundations for Lifetime Fitness and Wellness**

Introduction and discussion of the interrelationship of physical fitness and wellness. Benefits associated with physical activity, and how exercise on a regular basis contributes to the development of healthier lifestyles. Topics include: components of physical fitness (including assessment techniques), weight control, nutrition, stress management, health benefits of active lifestyles, and exercise guidelines for each area of fitness. (GE=E1) (2 units)

**210. Introduction to Kinesiology**

- A. Provides an overview of the discipline of kinesiology. Two hours lecture. (2 units)
- B. Provides an overview of adapted physical education. Two hours lecture. (2 units)

**237. Water Safety Instruction**

Materials and methods in organizing school, community and camp aquatic programs. Supervised practice in teaching aquatics. Meets standards for Red Cross certification. One hour lecture and three hours laboratory. Prerequisite: KINE 137A or 137C or equivalent. (2 units)

**240. Exercise Science Software**

Examination and analysis of computer software utilized in exercise science, physical education and athletics. Content is consistent with skills necessary to prepare students as health fitness instructors by the American College of Sports Medicine. Four hours activity. (2 units)

**254. Field Experience**

Supervised off-campus observational field experience in a teaching, fitness or recreation setting. One hour lecture and three hours of observation. (2 units)

**261. Professional Activity Preparation in Individual and Dual Sports/Movement Forms**

The development of the fundamental techniques and skills for teaching these activities. .

- A. Archery (2 units)
- B. Badminton (2 units)
- C. Dance (2 units)
- E. Golf (2 units)
- F. Gymnastics (2 units)
- G. Racquetball (2 units)
- H. Swimming. Prerequisites: KINE 137A, 137C, 137J, 137K or 137L. (2 units)
- J. Tennis (2 units)
- K. Track and Field (2 units)
- L. Aerobic Exercise (2 units)
- M. Martial Arts (2 units)
- N. Strength and Conditioning (2 units)
- O. Yoga (2 units)

**263. Professional Activity Preparation of Team Sports**

The development of the fundamental techniques and skills for teaching these activities.

- A. Basketball (2 units)
- B. Football (Flag) (2 units)
- C. Soccer (2 units)
- D. Softball (2 units)
- E. Volleyball (2 units)

**267. Sports Officiating**

An introduction to contest rules and mechanics of officiating for selected sports. Personal and philosophical bases for successful officiating are examined. (2 units)

**270. Introduction to Fitness and Testing**

Understanding the scientific basis for assessing physical conditional, fitness, and strength development. Acquisition of the skills and techniques necessary for designing and evaluating fitness programs for specific applications. Four hours activity. (2 units)

**271. Recreation Leadership**

Organization, supervision and administration of recreation programs and practical experience in recreation situations which provide the opportunity to develop leadership skills. (4 units)

**277. Recreation Programming**

Materials and methods used in planning and conducting programs in recreation, such as social recreation, dramatics, arts and sports. Prerequisite: KINE 203 or 271. (4 units)

**242 / Kinesiology****Upper Division****301. Service Learning in Kinesiology**

Supervised activities in Kinesiology that provide service to campus or community constituents based on field experiences for students to link their coursework with the discipline of Kinesiology. Graded ABC/no credit. May be repeated for credit. Prerequisites: KINE 210A. (2 units)

**305. Prevention and Treatment of Sports Injuries**

Theories and methods in the prevention, assessment, treatment and rehabilitation of sports injuries. Four hours lecture, laboratory experiences included. Formerly KINE 280. Materials fee required. Prerequisites: BIOL 223 and 224. (4 units)

**310. History and Philosophy of Physical Activity**

The evolution of sport and physical activity including historical and philosophical influences from ancient societies through the present. Four hours lecture. (4 units)

**323. Sociology of Physical Activity**

Sociocultural aspects of sport and physical activity, including socialization process, social issues, reflection of social values and interaction with other social institutions. Four hours lecture. (4 units)

**324. Psychology of Physical Activity**

A behavioral science perspective is used to examine sport and physical activity, including motivation, personality, anxiety, aggression, group cohesion. Includes theoretical foundations and practical application. Four hours lecture. (4 units)

**325. Motor Development Across the Lifespan**

Concepts of growth and motor development of human beings throughout the lifespan. Major emphasis on the period of birth through adolescence. Two hours lecture with demonstrations. Laboratory experiences included. (2 units)

**330. Movement Skill Assessment for Individuals with Disabilities**

Analysis of motor skills for the purpose of conducting meaningful assessment for individuals with disabilities. Prerequisites: KINE 210B. (4 units)

**331. Topics in Adapted Physical Education**

Analysis of medical aspects and application of instructional strategies relevant to teaching and assessing motor skills in individuals with disabilities. Prerequisite: KINE 210B.

- A. Adapted Aquatics (American Red Cross certification) (2 units)
- B. Physical Disabilities (2 units)
- C. Disabilities in Learning (2 units)
- D. Disabilities in Communication (2 units)
- E. Severe and Profound Disabilities (2 units)

**343. Methods and Techniques of Coaching**

Strategies, practice organization and planning for coaching of athletic teams. The purpose of school athletics, public relations responsibilities and personal qualities for success are examined. (4 units)

**352. Movement for Children**

The study and analysis of movement for children. Includes the structure of movement, the integration of movement activities and the human development aspects of movement. (4 units)

**360. Physical Activity and Aging**

Examination of the neurological and physiological changes associated with the aging process from post-adolescence through the senior years. Includes information concerning special planning, implementing and evaluation of adult oriented physical activity programs. Content is consistent with skills necessary to prepare students as a health fitness instructor by the American College of Sports Medicine. Two hours lecture. Recommended: BIOL 223. (2 units)

**365. Outdoor Education and Camp Leadership**

Knowledge, concepts and techniques for the administration and organization of camps and for working with people in the out-of-doors. Includes a supervised leadership experience and field trips to observe camp facilities, programs and resources. (4 units)

**370. Measurement and Statistics in Kinesiology**

Selection, application and interpretation of evaluative measures used in pedagogical and in exercise science settings. Includes both descriptive and inferential statistics. Specific attention will be given to parametric techniques. Four hours lecture. Prerequisites: KINE 210A and MATH 110. (4 units)

**380. Advanced Assessment and Rehabilitation of Athletic Injuries**

Study of specific techniques of injury evaluation and assessment. Development and application of rehabilitation programs. Four hours lecture plus eight hours of arranged fieldwork per week. Prerequisite: KINE 305. (4 units)

**382. Nutrition for Health, Fitness and Sports**

Addresses nutrition needs of active people and athletes. Topics include, but not limited to macro and micro nutrient requirements for fitness and sport, popular nutrition supplements and ergogenic aids. (Also offered as HSCI 382. Students may not receive credit for both.) Four hours lecture. Recommended: BIOL 224. (4 units)

**385. Diversity Issues in Sport and Physical Activity**

Exploration of how historical and contemporary forces in society have shaped the opportunities and experiences of various cultural groupings in American sport and physical activity settings. Focuses primarily on diversity issues related to race, gender, social class, sexuality, religion and physical ability/disability in American sport. (4 units)

**410. Motor Control and Skill Learning**

A psychological and neurological level of analysis of the factors that influence the acquisition and retention of gross motor skills with emphasis on the role of the sensory and motor control reflexes. Content is consistent with skills necessary to prepare students as health fitness instructors by the American College of Sports Medicine. Four hours lecture. Formerly KINE 320 and PE 320. (4 units)

**454. Field Experience II**

Supervised leadership experience in a teaching or fitness setting. Prerequisite: KINE 254 or consent of instructor. (3 units)

**471. Exercise Science Program Management**

Management and supervisory philosophies involved in administering fitness facilities. Includes scheduling, budgeting, public relations, legal liability, planning, supervision of personnel, and evaluation of programs and personnel. Four hours lecture. Prerequisites: KINE 210A and 270. (4 units)



**472. Program Design in Physical Education**

Basic skills necessary to design, implement and evaluate effective physical education programs in public schools. Formerly KINE 470. Four hours lecture. Prerequisites: KINE 210A and 254. (4 units)

**473. Instructional Strategies in Physical Education**

Prepares future physical educators with skills to translate goals and objectives in the teaching-learning process into effective teaching behaviors. Four hours lecture. Formerly KINE 355. (4 units)

**479. Qualitative Biomechanics**

Analysis of movement and application of physical laws to human performance from a qualitative perspective. Four hours lecture and three hours laboratory. Prerequisites: BIOL 223, 224 and MATH 110. (5 units)

**480. Biomechanics**

Application of physical laws to human performance; analytical and quantitative processes emphasized. Four hours lecture and three hours laboratory. Prerequisite: MATH 110. Recommended: MATH 120 and PHYS 100. (5 units)

**481. Exercise Physiology**

Effects of physical activity on the physiological systems of the human body. Four hours lecture and three hours laboratory. Prerequisites: BIOL 223 and 224. (5 units)

**482. Contemporary Fitness Programs**

Analysis of contemporary methods and technologies used in fitness programs. Critiques made in light of research findings and practical applications. (4 units)

**483. Exercise Prescription**

Development of assessment skills, exercise prescription modules and training schedules for normal, high level fitness and special populations. Content is consistent with skills necessary to prepare students as a health fitness instructor by the American College of Sports Medicine. Three hours lecture and three hours laboratory. Materials fee required. Prerequisites: KINE 481 and 486. (4 units)

**485. EKG Interpretation**

Introduction to electrocardiography. Basic concepts of EKG interpretation including electro-physiology, arrhythmia, electrode placement for both resting and graded exercise testing. Content is consistent with skills necessary to prepare students as a health fitness instructor by the American College of Sports Medicine. Materials fee required. Four hours activity. Laboratory included. Prerequisite: KINE 481. (2 units)

**486. Instrumentation in Exercise Science**

Prepares students to calibrate and operate basic physiological equipment used in fitness assessment. Content is consistent with skills necessary to prepare students as health fitness instructors by the American College of Sports Medicine. One hour lecture and three hours laboratory. Materials fee required. Prerequisite: KINE 481. (2 units)

**488. Legal Issues in Exercise Science**

The legal system as applied to sport and exercise. Legal liabilities, risk management, defenses against negligence in sport/exercise litigation, and case law relating to selected topics such as facilities, equipment, client injuries. Two hours lecture. Prerequisite: KINE 471. (2 units)

**490. Senior Seminar in Kinesiology**

Selected topics significant to the discipline of kinesiology. Formerly PE 490. Two hours seminar. Prerequisite: senior standing or consent of instructor. (2 units)

**493. Internship**

Directed clinical experience at selected cooperating agencies. Experience in exercise testing, monitoring, and programming for selected populations including but not limited to: healthy individuals; cardiac rehabilitation patients, and athletes. Content is consistent with skills necessary to prepare students as health fitness instructors by the American College of Sports Medicine. Requires six hours per week of approved supervised experience. May be repeated for credit with consent of instructor. A total of six units may be applied toward the degree. Prerequisites: KINE 481, 483, 486, 488 and senior status. (2 units)

**499. Methods and Materials in the Teaching of Physical Education**

Individualized instruction in the methods and materials for the teaching of physical education. Prerequisites: ESEC 332, senior or graduate standing and admission to the Single Subject Credential Program or consent of the College of Natural Sciences. (4 units)

**580. Exercise, Energy and Human Performance**

Energy demands and dietary adjustments required in physical performance with emphasis on high intensity activities. Consideration of climactic factors, ergogenic aids and synthetic substance ingestion. Prerequisite: KINE 481. (4 units)

**595. Independent Study**

Experimental effort, field or library research conducted under the direction of a faculty member. A total of six units may apply toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-4 units)

**Graduate level courses can be found on Page 467.**

# LATIN AMERICAN STUDIES

## College of Arts and Letters

University Hall, UH-201.44  
(909) 537-5858 <http://cal.csusb.edu/>

### Minor

Latin American Studies

**DIRECTOR:** M. Antonietta Gallegos-Ruiz

## MINOR IN LATIN AMERICAN STUDIES

### Requirements (28 units)

#### Requirements for a minor in Latin American Studies:

##### Admission to the Program

1. Students must meet general university admission requirements;
2. Students should discuss this minor with their academic advisors. All majors are eligible to participate in this minor.

##### Requirements for Graduation

1. Minors can only be granted for the same term in which students graduate;
2. CSUSB will not consider for transfer credit coursework from an institution that will not accept that coursework in its own degree program.

#### Requirements for the Minor:

##### Core requirements (8 units)

1. Four units chosen from:
  - HIST 470. Modern Latin America (4)
  - HUM 335. The Origin and Contemporary Role of Latino Culture (4)
2. Four units of foreign language study chosen from:
  - FLAN 150D. Intermediate Language Study: Portuguese (4)
  - SPAN 150. Intermediate Spanish (4)

##### International experience (4 units)

1. Four units chosen from:
  - HUM 577. International Experience: Spanish (4)
  - HUM 581. International Experience: Portuguese (4)

##### Integrative international seminar (4 units)

1. Four units chosen from
  - HUM 500A. Current Ideas and Issues in Latin America I (4)
  - HUM 500B. Current Ideas and Issues in Latin America II (4)

##### Electives (12 units)

1. Twelve units, with at least one course each from groups A, B, and C:
  - A. Social Sciences
    - ANTH 306. Aztecs, Mayans and their Predecessors (4)
    - ANTH 307. Incas and their Predecessors (4)
    - ANTH 324. Pre-Colombian Art (4)
    - ANTH 354. Cultures of Mexico and Central America (4)
    - ANTH 356. Cultures of South America (4)
    - ECON 590. Seminar in Economics: Political Economy of Latin America (4)
    - GEOG 322. United States and Mexico Border Issues (4)
    - HIST 390. History of Modern Mexico (4)
    - HIST 391. Chicano History (4)
    - HIST 465. Modern Central America (4)
    - HIST 466. Foreign Relations of Latin America (4)
    - HIST 467. Latin American History Through Film (4)
    - HIST 469. Colonial Latin America (4)
    - HIST 470. Modern Latin America (4)
    - PSCI 352C. Minority Politics: Latino Politics (4)
    - SOC 342. The Chicano Family (4)
    - SOC 442. Chicano Social Stratification (4)

- SOC 525. Indian Nations and Native Americans (4)
  - SOC 590. Seminar in Sociology: Life and Society in the U.S.-Mexico Borderlands (4)
  - SSCI 304. Contemporary Latin America (4)
  - B. Arts, Languages, Literature and Education
    - ART 324. Pre-Colombian Art (4)
    - ART 328. Mexican Art (4)
    - ART 329. Chicano Art (4)
    - EELB 512. Spanish Children's Literature for the Bilingual Classroom (4)
    - ENG 319. Studies in Literary Diversity (4)
    - ENG 323. Chicano Literature (4)
    - HUM 335. The Origin and Contemporary Role of Latino Culture (4)
    - HUM 460. Cultural Studies (4)
    - MUS 351. Latin American Music (4)
    - SPAN 314. Advanced Conversation (4)
    - SPAN 316A. Spanish for the Professions: Communications (4)
    - SPAN 316B. Spanish for the Professions: Health Science (4)
    - SPAN 316C. Spanish for the Professions: Education (4)
    - SPAN 316D. Spanish for the Professions: Business (4)
    - SPAN 316E. Spanish for the Professions: Law Enforcement (4)
    - SPAN 412. Spanish American Culture and Civilization (4)
    - SPAN 435. Chicano Literature in Spanish (4)
    - SPAN 440. Mexican Literature (4)
    - SPAN 442. Literature of the Southern Cone (4)
    - SPAN 516. Seminar in Spanish American Literature, Culture or Film (4)
- Note:** Spanish courses at the 300-level and above are taught in Spanish.
- C. Business, Management, Communication, Health and Nutrition
    - COMM 365. Topics in Mass Communication (when the topic is Media and Social Change in Latin America) (4)
    - COMM 471. International Communication (4)
    - COMM 593D. Communication Approaches to Area Studies: Latin America (4)
    - HSCI 344. International Perspectives on Nutrition (4)
    - HSCI 359. International Perspectives on Health (4)
    - HSCI 385. Food and Culture: Traditions and Trends (4)
    - MGMT 324. International Environmental Management (4)
    - MGMT 405. International Management (4)
    - MGMT 407. Comparative Management Systems of the Americas (4)
    - MKTG 470. International Marketing Management (4)
- Note:** In the electives categories, those courses not specifying a topic, are applicable only when the student's project/research focuses on Latin America.
- Note:** Students may receive credit for only one of the following courses:
- ANTH 324. Pre-Colombian Art (4)
  - ART 324. Pre-Colombian Art (4)

#### Foreign Language Requirement for Spanish or Portuguese:

The following rules apply to challenging a language course for credit in this minor:

1. Only courses at the 150-level or higher may be challenged.
2. Students whose language of instruction in secondary school was Spanish or Portuguese may satisfy this category by submitting official academic transcripts showing that either language was, indeed, the medium of instruction in the school from which they graduated.
3. Providing documentation of significant foreign language experience such as the successful completion of two years of Peace Corps experience in a Spanish- or Portuguese-speaking country.

# LIBERAL STUDIES

## Liberal Studies Office

College of Education Building, Room 114  
(909) 537-5857 <http://liberalstudies.csusb.edu>

## Liberal Studies Peer Advising Center (PALS)

College of Education Building, Room 114  
(909) 537-5482

**NOTE: Room numbers effective Fall 2008, check Summer Schedule of Classes for current locations**

## Bachelor of Arts

Liberal Studies - General Track  
Liberal Studies - Integrated Track  
Liberal Studies - Spanish Studies Track  
Liberal Studies - Arts and Letters Track

**COORDINATOR:** Jerrold Pritchard

The Bachelor of Arts in Liberal Studies is a multidisciplinary degree program designed for students whose needs or interests require a more broadly based liberal arts curriculum than is possible through existing disciplines.

Most students pursuing this major intend to become teachers in K-8 classrooms and the Liberal Studies major program provides all the subject matter content required by the California Commission on Teacher Credentialing (CCTC).

The Liberal Studies Integrated Track leads to a Bachelor of Arts degree in Liberal Studies AND Multiple Subject Credential. It is designed for students who plan to become elementary, K-8, school teachers AND who want to save time (about 2 quarters or 27 units) by working on the credential along with their B.A. degree.

The General and Spanish Studies baccalaureate degree programs prepare students to enter the Multiple Subject (Elementary School) teaching credential, generally during a fifth year of post-graduate study in the College of Education.

An Arts and Letters Track is available for those seeking a well-rounded and unspecialized undergraduate major but who do not plan to become teachers. This program is useful for careers requiring a broad educational background and strong communication, computer, research, and critical thinking skills. A choice of interdisciplinary concentrations is available in this track and a Minor is also required as well.

## DEPARTMENTAL HONORS

The Liberal Studies student will be eligible for departmental honors upon verification of the following three requirements:

1. Earned a 3.5 grade point average in the major;
2. Completed at least 45 units of Liberal Studies courses at this university;
3. Successful completion of oral and written honors evaluations.

## B.A. IN LIBERAL STUDIES - GENERAL TRACK (Pre-credential)

### Requirements (173 units)

**Total units required for graduation: 180**

#### BASIC PROGRAM (157 units)

- A. Reading, Language, and Literature (28 units)
- B. History and Social Science (28 units)
- C. Mathematics (18 units)
- D. Science (22 units)
- E. Visual and Performing Arts (13 units)
- F. Physical Education and Health (10 units)

- G. Human Development (10 units)
- H. Additional General Education (GE) Requirements (20 units)
- I. Additional Liberal Studies Requirements (8 units)

#### FIELD OF CONCENTRATION (16 units)

- J. Concentration (16 units)

#### LIBERAL STUDIES TOTAL (173 units)

All Liberal Studies students should give special attention to the following points before they begin their course work:

1. Since the Liberal Studies program contains a variety of choices, students should seek advisement as early as possible at the Liberal Studies Peer Advising Center (PALS), CE-114;
2. By completing the Liberal Studies program, students also can fulfill the general education requirements of the university;
3. A course only can be counted once within the Liberal Studies program; for example, a course taken in the Concentration, category J, cannot be taken in a breadth area, categories A through I;
4. The Liberal Studies, General Track program is designed especially for students who wish to enter elementary school teaching;
5. Assessment is a required component of the Liberal Studies major and is found under category I. All entering freshmen must enroll in HUM 197 at the earliest possible date. After 90 units are completed, students must enroll in HUM 397. After 135 units are completed, students must enroll in HUM 597; in either of their last two quarters.

Transfer students must enroll in HUM 197 during their first quarter if they have not had an equivalent course elsewhere, immediately followed by HUM 397. They will then take HUM 597 in either of their last two quarters;

6. All graduating Liberal Studies students must maintain a grade point average of at least 2.0 ("C"). Students who plan to seek their multiple subject teaching credential at CSUSB should achieve a minimum GPA of at least 2.7.

## Requirements for the B.A. in Liberal Studies - General Track:

### A. Reading, Language, and Literature (28 units)

1. Freshman Composition (G.E.)  
ENG 101. Freshman Composition (4)
2. Oral Communication (G.E.)  
COMM 120. Oral Communication (4)  
HON 104C.\* Language and Meaning: Oral Communication (4)  
(open only to Honors Program students)
3. Lower division Literature (G.E.)  
Four units chosen from:  
ENG 110. World Literature I (4)  
ENG 111. World Literature II (4)  
ENG 160. World Drama (4)  
ENG 170. Studies in Literature (4)  
TA 160. World Drama (4)  
TA 212. Oral Interpretation of Literature (4)
4. Upper division Writing (G.E.)  
Four units chosen from:  
EDUC 306. Expository Writing for Education (4)  
ENG 306. Expository Writing (4)  
HON 306. Expository Writing (4) (open only to Honors Program students)  
HUM 306. Expository Writing for the Humanities (4)  
MGMT 306. Expository Writing for Administration (4)  
NSCI 306. Expository Writing for the Natural Sciences (4)  
SSCI 306. Expository Writing for the Social Sciences (4)

**Note:** This requirement also can be met by passing a proficiency examination. No unit credit is awarded for passing the examination. It may be necessary to take additional units to meet minimum residency and graduation unit requirements.

**246 / Liberal Studies****5. Analysis of Literature**

Four units chosen from:

- ENG 301A. Analysis of Poetry (4)
- ENG 302A. Analysis of Drama (4)
- ENG 303A. Analysis of Prose Fiction (4)
- ENG 304A. Analysis of Nonfiction Prose (4)
- TA 302A. Analysis of Drama (4)

**6. Linguistics**

- ENG 311. The English Language (4)

**Note:** Students must maintain a "C-" or better in this course.**7. Children's Literature**

Four units chosen from:

- ENG 320. Children's Literature (4)
- ENG 327. Literature for Adolescents and Young Adults (4)

**B. History and Social Science (28 units)****1. World Civilization I (G.E.)**

Four units chosen from:

- ANTH 140. World Civilizations I, the Rise of Civilization (4)
- HIST 140. World Civilizations I, the Rise of Civilization (4)

**2. World Civilization II**

- HIST 142. World Civilizations II, the Civilizations of the East and the West (4)

**3. American Civilization (G.E.)**

Four units chosen from:

- HIST 146. American Civilization (4)
- HIST 200. United States History to 1877 (4)

**4. American Government (G.E.)**

- PSCI 203. American Government (4)

**5. California History**

- HIST 270. California History (4)

**6. Economics**

- ECON 311. Economics in the Elementary and Middle School (4)

**7. Geography**

- GEOG 300. Geography in the Elementary and Middle School Classroom (4)

**C. Mathematics (18 units)****1. Ideas of Mathematics (G.E.)**

- MATH 115. The Ideas of Mathematics (4)

**2. Fundamental Concepts of Mathematics for Educators**

- MATH 301A. Fundamental Concepts of Mathematics for Educators A: Fundamentals of Arithmetic and Geometry (4)

- MATH 301B. Fundamental Concepts of Mathematics for Educators B: Transition from Concrete to Abstract in Algebra and Geometry (4)

- MATH 301C. Fundamental Concepts of Mathematics for Educators C: Further Developments in Algebra and Geometry (4)

**3. Problem Solving in Mathematics**

- MATH 308. Problem Solving Through Theory and Practice (2)

**Note:** All MATH courses must be passed with a grade of "C" or better.**D. Science (22 units)****1. Life Sciences (G.E.)**

- BIOL 100. Topics in Biology (5)

**2. Physical Science (G.E.)**

Students must take both:

- CHEM 100. Chemistry in the Modern World (5)
- PHYS 100. Physics in the Modern World (5)

**3. Earth and Space Science (G.E.)**

Five units chosen from:

- ASTR 311. A Cosmic Perspective of Earth (5)
- GEOG 311. The Dynamic Earth (5)
- GEOL 309. Earth: The Blue Planet (5)

**4. Technology (G.E.)**

- CSCI 129. Science, Computing and Society (2)

**E. Visual and Performing Arts (13 units)****1. Art Appreciation (G.E.)**

Four units in the arts chosen from:

- ART 200. Studies in Art (4)
- MUS 180. Studies in Music (4)
- TA 260. Introduction to Theatre (4)

**2. Music Activity**

- MUS 370. Music for Elementary Classroom Teachers (3)

**3. Theatre Activity**

Three units chosen from:

- TA 481. Creative Drama in the Classroom (3)
- TA 484. Readers Theatre in the Classroom (3)
- TA 486. Puppetry in the Classroom (3)

**4. Visual Arts Activity**

A minimum of three units chosen from:

- ART 395. Art in the Classroom (3)
- ART 400. Teaching Art in the Elementary Classroom (4)

**F. Physical Education and Health (10 units)****1. Physical Education (G.E.)**

Two units chosen from:

- KINE 101. Individual and Dual Activities (2)
- KINE 114. Physical Fitness and Conditioning Activities (2)
- KINE 120. Combative and Martial Arts Activities (2)
- KINE 121. Team Activities (2)
- KINE 137. Aquatic Activities (2)
- KINE 147. A Fitness Odyssey (2)
- KINE 149. Independent Activity Project (2)
- KINE 150. Dance Activities (2)

**2. Physical Fitness (G.E.)**

- KINE 205. Foundations for Lifetime Fitness and Wellness (2)

**3. Movement Skills**

Four units chosen from:

- DAN 481. Creative Dance in the Classroom (4)
- KINE 352. Movement for Children (4)

**4. Health**

- HSCI 100. Concepts in Health (2)

**Note:** Students must maintain a "C-" or better in this course.**G. Human Development (10 units)****1. Child Development**

- HD 240. Introduction to Child Development (4)

**Note:** Students must maintain a "C-" or better in this course.**2. Observations and Methods in Child Development**

Two units to be taken concurrently with or after HD 240 chosen from:

- HD 245. Observation and Methods in Child Development: Early Childhood (2)
- HD 246. Observation and Methods in Child Development: Middle Childhood (2)
- HD 247. Observation and Methods in Child Development: Adolescence (2)

**3. Exceptional Child**

- PSYC 350. Development of Exceptional Children (4)

**Note:** Students must maintain a "C-" or better in this course.**H. Additional General Education Requirements (20 units)****1. Critical Thinking (G.E.)**

Four units chosen from:

- COMM 180. Critical Thinking Through Argumentation (4)
- HON 104A.\* Language and Meaning: Critical Thinking (4) (open only to Honors Program students)
- MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)
- PHIL 105. Critical Thinking Through Argument Analysis (4)



- PHIL 200. Critical Thinking Through Symbolic Logic (4)  
 PSYC 105. Critical Thinking Through Problems Analysis (4)  
 SOC 180. Critical Thinking About Social Problems (4)
2. Philosophy (G.E.)  
 Four units chosen from:  
 HON 104B.\* Language and Meaning: Introduction to Philosophy (4) (open only to Honors Program students)  
 PHIL 190. Introduction to Philosophical Issues (4)  
 PHIL 191. Introduction to Ethics (4)  
 PHIL 192. Introduction to Philosophy of Religion (4)  
 PHIL 193. Introduction to Eastern Philosophy (4)  
 PHIL 194. Introduction to Knowledge and Reality (4)
3. Foreign Language (G.E.)  
 Four units chosen from:  
 ARAB 150. College Arabic III (4)  
 ARAB 214. Conversation in Arabic (4)  
 ASL 150. American Sign Language III (4)  
 FLAN 150. Intermediate Language Study (4)  
 FREN 150. Intermediate French (4)  
 FREN 200. Culture and Communication (4)  
 FREN 201. Culture and Communication II (4)  
 FREN 202. Culture and Communication III (4)  
 GER 150. Intermediate German (4)  
 GER 212. Composition (4)  
 GER 214. Conversation (4)  
 GER 216. Introduction to Literary Texts (4)  
 JAPN 150. Intermediate Japanese (4)  
 MAND 150. Intermediate Mandarin (4)  
 SPAN 150. Intermediate Spanish (4)  
 SPAN 155. Intermediate Spanish for Heritage/Native Speakers (4)  
 SPAN 212. Composition (4)  
 SPAN 213. Composition for Heritage/Native Speakers (4)  
 SPAN 214. Conversation (4)
- Note:** Students pursuing the B.A. in Liberal Studies cannot include in Category H3 the following courses:  
 ARAB 290. Arabic Literature in Translation  
 FREN 290. French Literature in English  
 GER 290. German Literature in English  
 JAPN 290. Japanese Literature in Translation  
 MAND 290. Mandarin Literature in Translation  
 SPAN 290. Spanish and Latin American Literature in English
- Note:** A placement test must be taken prior to registering for SPAN 101, 102, 150 or 155. For more information about the Spanish Placement Test or offerings in foreign languages, contact the Department of World Languages and Literatures (909) 537-5847, UH-314.
4. Integrative Capstone in the Humanities (G.E.)  
 Four units chosen from:  
 HUM 319. Myth, Metaphor and Symbol (4)  
 HUM 325.\* Perspectives on Gender (4)  
 HUM 328. Asian Cultural Traditions (4)  
 HUM 330. Arts and Ideas (4)  
 HUM 335.\* The Origin and Contemporary Role of Latino Culture (4)  
 HUM 340. Interpretation and Values (4)  
 HUM 344. Ideas in American Culture (4)  
 HUM 350.\* The Cultures of American Childhood (4)  
 HUM 370.\* African Heritage in the Arts (4)  
 HUM 375.\* The World of Islam (4)  
 HUM 380.\* Comparative Studies in the Arts: East and West (4)  
 HUM 385. A Cultural History of Fashion (4)

5. Integrative Capstone in the Social and Behavioral Sciences (G.E.)  
 Four units chosen from:  
 SSCI 300. Nonwestern World (4)  
 SSCI 304. Contemporary Latin America (4)  
 SSCI 315. Cultural Adaptation: The Quest for Survival (4)  
 SSCI 316.\* Race and Racism (4)  
 SSCI 320. Understanding Capitalism (4)  
 SSCI 321. Urbanization and the Urban Environment (4)  
 SSCI 325.\* Perspectives on Gender (4)  
 SSCI 345. Religious Expression in America (4)  
 SSCI 350.\* Roots of Modern Racism in America (4)  
 \*Meets the Multicultural Requirement for GE. Students should choose one \* course in category H4 or H5. Credit can be received once for Hum 325, NSCI 325, or SSCI 325.

#### I. Additional Liberal Studies Requirements (8 units)

1. Assessment (4 units)  
 HUM 197. Assessment Preparation I in Liberal Studies (1)  
**Note:** Must be taken during the first quarter of enrollment.  
 HUM 397. Assessment Preparation II in Liberal Studies (1)  
 HUM 597. Senior Assessment in Liberal Studies (2)  
**Note:** Must be taken in either of last two quarters before graduation.

2. Classroom Experiences (4 units)  
 EELB 230. Introduction to Education (4)

#### J. Concentration (16-18 units)

The concentration requires a minimum of 16 units. However, two of those units may be a course required of all Liberal Studies majors. Concentrations noted with an (†) are in areas that do not meet this rule and will require 18 units minimum of specific coursework. *Students should get a list of courses approved for use or required in concentration from the Liberal Studies Office or at the website <http://www.csusb.edu/liberal/concen/2.html>*

Anthropology†	German†
Art	Health Science
Art, Music and Theatre for Teachers	History
Biology	Human Development
Chemistry	Kinesiology (no activity courses)
Chicano/a and Latino/a Studies†	Latin American Studies†
Communication Studies	Mathematics
Computer Science	Music
Dance	Physics
Economics	Political Science
English	Psychology
French†	Sociology†
Geography	Spanish†
Geology†	Theatre Arts
	Women's Studies†

**B.A. IN LIBERAL STUDIES -****INTEGRATED TRACK (B.A. and Multiple Subject Credential)****Requirements (201 units)****Total units required for graduation:****SUBJECT MATTER PROGRAM (157 UNITS)**

- A. Reading, Language, and Literature (24 units)
- B. History and Social Science (28 units)
- C. Mathematics (18 units)
- D. Science (22 units)
- E. Visual and Performing Arts (13 units)
- F. Physical Education and Health (10 units)
- G. Human Development (18 units)
- H. Additional General Education (GE) Requirements (12 units)
- I. Additional Liberal Studies Requirements (8 units)

**MULTIPLE SUBJECT CREDENTIAL PROGRAM (48 units)**

- J. Phase I (15 units)
- K. Phase II (17 units)
- L. Phase III (16 units)

**INTEGRATED PROGRAM TOTAL (201 units)**

- 1. The Liberal Studies Integrated Track is designed specifically for students who wish to enter elementary school teaching AND who want to save time by working on credential preparation along with their B.A. degree.
- 2. The Integrated Track will not suit the needs of all students and, since the Liberal Studies program has several tracks from which to choose, students should seek advisement as early as possible at the Liberal Studies Peer Advising Center (PALS), CE-102.
- 3. Grades in categories A (with exception of A1 and A4), B, D, E, F, G, and I must be a "C-" or better.
- 4. Grades in categories A1, A4, and C must be a "C" or better.
- 5. Grades in categories J, K and L must be a "B-" or better with an overall GPA of 3.0 in those categories.
- 6. Requirements for entering the Multiple Subject Credential program:
  - a. Junior status (90 quarter units),
  - b. Cumulative grade point average of 2.67 or higher,
  - c. Completion of lower division coursework,
  - d. Verification of a negative tuberculin examination within the last four years,
  - e. Submission of an application for a Certificate of Clearance,
  - f. Written verification that the California Basic Educational Skills Test (CBEST) has been taken or a passing score on the CBEST,
  - g. Submission of a Program Admission File (PAF) to the Credentials Office, CE-102, at least one quarter prior to enrollment in Credential courses (Phase I);
- 7. Assessments are a required component of the Integrated Track and are found under categories I through L. All entering freshmen must enroll in HUM 197 during the first quarter of enrollment. After 90 units are completed, students must enroll in HUM 397 and HUM 597 in either of their last two quarters before graduation. Transfer students must enroll in HUM 197 during the first quarter of enrollment if they have not had an equivalent course elsewhere, followed by HUM 397 the next quarter and HUM 597 in either of their last two quarters before graduation;
- 8. Requirements for admission to supervision (EELB 540A):
  - a. Passing score on CBEST;
  - b. Passing score on California Subject Examination for Teachers (CSET);

- c. Completion of Phase I courses (EELB 312, 313, 315, 317, and 519).

- 9. Additional requirements for the Multiple Subject Credential
  - a. Current and valid CPR certification that includes infant, child and adult;
  - b. Reading Instruction Competency Assessment (RICA).

**Requirements for the B.A. in Liberal Studies - Integrated Track:****A. Reading, Language, and Literature (24 units)**

- 1. Freshman Composition (G.E.)  
ENG 101. Freshman Composition (4)
- 2. Oral Communication (G.E.)  
COMM 120. Oral Communication (4)  
HON 104C.\* Language and Meaning: Oral Communication (4) (open only to Honors Program students)
- 3. Lower Division Literature (G.E.)  
Four units chosen from:  
ENG 110. World Literature I (4)  
ENG 111. World Literature II (4)  
ENG 160. World Drama (4)  
ENG 170. Studies in Literature (4)  
TA 160. World Drama (4)  
TA 212. Oral Interpretation of Literature (4)
- 4. Upper Division Writing (G.E.)  
This requirement will be met by passing a proficiency examination. No unit credit is awarded for passing the examination.  
EDUC 306. Expository Writing for Education (4)  
ENG 306. Expository Writing (4)  
HON 306. Expository Writing (4) (open only to Honors Program students)  
HUM 306. Expository Writing for the Humanities (4)  
MGMT 306. Expository Writing for Administration (4)  
NSCI 306. Expository Writing for the Natural Sciences (4)  
SSCI 306. Expository Writing for the Social Sciences (4)

**5. Analysis of Literature**

Four units chosen from:

- ENG 301A. Analysis of Poetry (4)
- ENG 302A. Analysis of Drama (4)
- ENG 303A. Analysis of Prose Fiction (4)
- ENG 304A. Analysis of Nonfiction Prose (4)
- TA 302A. Analysis of Drama (4)
- 6. Linguistics  
ENG 311. The English Language (4)
- 7. Children's Literature  
Four units chosen from:  
ENG 320. Children's Literature (4)  
ENG 327. Literature for Adolescents and Young Adults (4)

**B. History and Social Science (28 units)****1. World Civilization I (G.E.)**

Four units chosen from:

- ANTH 140. World Civilizations I, the Rise of Civilization (4)
- HIST 140. World Civilizations I, the Rise of Civilization (4)
- 2. World Civilization II  
HIST 142. World Civilizations II, the Civilizations of the East and the West (4)
- 3. American Civilization (G.E.)  
Four units chosen from:  
HIST 146. American Civilization (4)  
HIST 200. United States History to 1877 (4)
- 4. American Government (G.E.)  
PSCI 203. American Government (4)
- 5. California History  
HIST 270. California History (4)
- 6. Economics  
ECON 311. Economics in the Elementary and Middle School (4)

7. Geography  
GEOG 300. Geography in the Elementary and Middle School Classroom (4)

**C. Mathematics (18 units)**

1. Ideas of Mathematics (G.E.)  
MATH 115. The Ideas of Mathematics (4)
2. Fundamental Concepts of Mathematics for Educators  
MATH 301A. Fundamental Concepts of Mathematics for Educators A: Fundamentals of Arithmetic and Geometry (4)
- MATH 301B. Fundamental Concepts of Mathematics for Educators B: Transition from Concrete to Abstract in Algebra and Geometry (4)
- MATH 301C. Fundamental Concepts of Mathematics for Educators C: Further Developments in Algebra and Geometry (4)
3. Problem Solving in Mathematics  
MATH 308. Problem Solving Through Theory and Practice (2)

**D. Science (22 units)**

1. Life Sciences (G.E.)  
BIOL 100. Topics in Biology (5)
2. Physical Science (10 units) (G.E.)  
Students must take both:  
CHEM 100. Chemistry in the Modern World (5)  
PHYS 100. Physics in the Modern World (5)
3. Earth and Space Science (G.E.)  
Five units chosen from:  
ASTR 311. A Cosmic Perspective of Earth (5)  
GEOG 311. The Dynamic Earth (5)  
GEOL 309. Earth: The Blue Planet (5)
4. Technology (G.E.)  
CSCI 129. Science, Computing and Society (2)

**E. Visual and Performing Arts (13 units)**

1. Art Appreciation (G.E.)  
Four units in the arts chosen from:  
ART 200. Studies in Art (4)  
MUS 180. Studies in Music (4)  
TA 260. Introduction to Theatre (4)
2. Music Activity  
MUS 370. Music for Elementary Classroom Teachers (3)
3. Theatre Activity  
Three units chosen from:  
TA 481. Creative Drama in the Classroom (3)  
TA 484. Readers Theatre in the Classroom (3)  
TA 486. Puppetry in the Classroom (3)
4. Visual Art Activity  
A minimum of three units chosen from:  
ART 395. Art in the Classroom (3)  
ART 400. Teaching Art in the Elementary Classroom (4)

**F. Physical Education and Health (10 units)**

1. Physical Education (G.E.)  
Two units chosen from:  
KINE 101. Individual and Dual Activities (2)  
KINE 114. Physical Fitness and Conditioning Activities (2)  
KINE 120. Combative and Martial Arts Activities (2)  
KINE 121. Team Activities (2)  
KINE 137. Aquatic Activities (2)  
KINE 147. A Fitness Odyssey (2)  
KINE 149. Independent Activity Project (2)  
KINE 150. Dance Activities (2)
2. Physical Fitness (G.E.)  
KINE 205. Foundations for Lifetime Fitness and Wellness (2)

3. Movement Skills  
Four units chosen from:  
DAN 481. Creative Dance in the Classroom (4)  
KINE 352. Movement for Children (4)

4. Health  
HSCI 100. Concepts in Health (2)

**G. Human Development (18 units)**

1. Child Development  
HD 240. Introduction to Child Development (4)
2. Observations and Methods in Child Development  
Two units to be taken concurrently or after HD 240 chosen from:  
HD 245. Observation and Methods in Child Development: Early Childhood (2)  
HD 246. Observation and Methods in Child Development: Middle Childhood (2)  
HD 247. Observation and Methods in Child Development: Adolescence (2)

3. Exceptional Child  
PSYC 350. Development of Exceptional Children (4)

4. Integrative Capstone in the Humanities (G.E.)

- Four units chosen from:  
HUM 319. Myth, Metaphor and Symbol (4)  
HUM 325.\* Perspectives on Gender (4)  
HUM 328. Asian Cultural Traditions (4)  
HUM 330. Arts and Ideas (4)  
HUM 335.\* The Origin and Contemporary Role of Latino Culture (4)  
HUM 340. Interpretation and Values (4)  
HUM 344. Ideas in American Culture (4)  
HUM 350.\* The Cultures of American Childhood (4)  
HUM 370.\* African Heritage in the Arts (4)  
HUM 375.\* The World of Islam (4)  
HUM 380.\* Comparative Studies in the Arts: East and West (4)  
HUM 385. A Cultural History of Fashion (4)

5. Integrative Capstone in the Social and Behavioral Sciences (G.E.)

- Four units chosen from:  
SSCI 300. Nonwestern World (4)  
SSCI 304. Contemporary Latin America (4)  
SSCI 315. Cultural Adaptation: The Quest for Survival (4)  
SSCI 316.\* Race and Racism (4)  
SSCI 320. Understanding Capitalism (4)  
SSCI 321. Urbanization and the Urban Environment (4)  
SSCI 325.\* Perspectives on Gender (4)  
SSCI 345. Religious Expression in America (4)  
SSCI 350.\* Roots of Modern Racism in America (4)  
\*Meets the multicultural/gender requirement for G.E. Students should choose one \* course in either categories G4 or G5. Credit can be received for either HUM 325 or SSCI 325 but not both.

**H. Additional General Education Requirements (12 units)**

1. Critical Thinking (G.E.)  
Four units chosen from:  
COMM 180. Critical Thinking Through Argumentation (4)  
HON 104A.\* Language and Meaning: Critical Thinking (4) (open only to Honors Program students)  
MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)  
PHIL 105. Critical Thinking Through Argument Analysis (4)  
PHIL 200. Critical Thinking Through Symbolic Logic (4)  
PSYC 105. Critical Thinking Through Problems Analysis (4)  
SOC 180. Critical Thinking About Social Problems (4)

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2. Philosophy (G.E.)  
Four units chosen from:  
HON 104B.\* Language and Meaning: Introduction to Philosophy (4) (open only to Honors Program students)  
PHIL 190. Introduction to Philosophical Issues (4)  
PHIL 191. Introduction to Ethics (4)  
PHIL 192. Introduction to Philosophy of Religion (4)  
PHIL 193. Introduction to Eastern Philosophy (4)  
PHIL 194. Introduction to Knowledge and Reality (4)
3. Foreign Language (G.E.)  
Four units chosen from:  
ARAB 150. College Arabic III (4)  
ARAB 214. Conversation in Arabic (4)  
ASL 150. American Sign Language III (4)  
FLAN 150. Intermediate Language Study (4)  
FREN 150. Intermediate French (4)  
FREN 200. Culture and Communication (4)  
FREN 201. Culture and Communication II (4)  
FREN 202. Culture and Communication III (4)  
GER 150. Intermediate German (4)  
GER 212. Composition (4)  
GER 214. Conversation (4)  
GER 216. Introduction to Literary Texts (4)  
JAPN 150. Intermediate Japanese (4)  
MAND 150. Intermediate Mandarin (4)  
SPAN 150. Intermediate Spanish (4)  
SPAN 155. Intermediate Spanish for Heritage/Native Speakers (4)  
SPAN 212. Composition (4)  
SPAN 213. Composition for Heritage/Native Speakers (4)  
SPAN 214. Conversation (4)

**Note:** Students pursuing the B.A. in Liberal Studies cannot include in Category H3 the following courses: ARAB 290, FREN 290, GER 290, JAPN 290, MAND 290 or SPAN 290. A placement test must be taken prior to registering for SPAN 101, 102, 150 or 155. For more information about the Spanish Placement Test or offerings in foreign languages, contact the Department of World Languages and Literatures (909) 537-5847, UH-314.

**I. Additional Liberal Studies Requirements (8 units)**

1. Assessment (4 units)  
HUM 197. Assessment Preparation I in Liberal Studies (1)  
**Note:** Must be taken during the first quarter of enrollment.  
HUM 397. Assessment Preparation II in Liberal Studies (1)  
HUM 597. Senior Assessment in Liberal Studies (2)

**Note:** Must be taken in either of last two quarters before graduation.

2. Classroom Experiences (4 units)  
EELB 230. Introduction to Education (4)

**Multiple Subject Credential Program (48 units)****J. Phase I (15 units)**

1. EELB 312. Family, Culture and Schooling (2)
2. EELB 313. Pedagogical Foundation for English Language Learners (4)
3. EELB 315. Reading/Language Arts Curriculum and Pedagogy (3)
4. EELB 317. Educational Psychology for a Diverse Society (4)
5. EELB 519. Assessment Seminar I (2)  
**NOTE:** Passage of the CBEST and CSET for multiple subjects is required for admission to student teaching.

**K. Phase II (17 units)**

1. EELB 422. Classroom Organization, Management and Discipline (2)

2. EELB 423. Mathematics Curriculum and Pedagogy (4)
3. EELB 425. Literacy and Second Language Acquisition for the Intermediate Reader and Beyond (3)
4. EELB 529. Assessment Seminar II (2)
5. EELB 540A. Supervised Student Teaching Multiple Subjects I (6)

**L. Phase III (16 units)**

1. EELB 532. Science/Health Curriculum and Pedagogy (4)
2. EELB 533. Social Studies and the Arts Curriculum and Pedagogy (4)
3. EELB 539. Assessment Seminar III (2)
4. EELB 540B. Supervised Student Teaching in Multiple Subjects II (6)

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**B.A. IN LIBERAL STUDIES -  
SPANISH STUDIES TRACK****Requirements (178 units)****Total units required for graduation: 180**

A multiple-subject credential candidate can pursue a Spanish Studies track within the liberal studies major. This track is especially designed for those students interested in teaching English as a second language to children whose first language is Spanish. This track also prepares students to work in a bilingual/Spanish classroom setting. See the general information provided under the General Track, items 1 to 6, which applies also to the Spanish Studies track.

**BASIC PROGRAM (178 UNITS)**

- A. Reading, Language, and Literature (28 units)
- B. History and Social Science (28 units)
- C. Mathematics (18 units)
- D. Science (22 units)
- E. Visual and Performing Arts (13 units)
- F. Physical Education and Health (10 units)
- G. Human Development (10 units)
- H. Additional General Education (GE) Requirements (20 units)
- I. Additional Liberal Studies Requirements (8 units)
- J. Spanish Studies (21 units)

**Requirements for the B.A. in Liberal Studies -  
Spanish Studies Track:****A. Reading, Language, and Literature (28 units)**

1. Freshman Composition (G.E.)  
ENG 101. Freshman Composition (4)
2. Oral Communication (G.E.)  
COMM 120. Oral Communication (4)  
HON 104C.\* Language and Meaning: Oral Communication (4) (open only to Honors Program students)

3. Lower Division Literature (G.E.)  
Four units chosen from:  
ENG 110. World Literature I (4)  
ENG 111. World Literature II (4)  
ENG 160. World Drama (4)  
ENG 170. Studies in Literature (4)  
TA 160. World Drama (4)  
TA 212. Oral Interpretation of Literature (4)

4. Upper Division Writing (G.E.)  
Four units chosen from:  
EDUC 306. Expository Writing for Education (4)  
ENG 306. Expository Writing (4)  
HON 306. Expository Writing (4) (open only to Honors Program students)  
HUM 306. Expository Writing for the Humanities (4)  
MGMT 306. Expository Writing for Administration (4)  
NSCI 306. Expository Writing for the Natural Sciences (4)  
SSCI 306. Expository Writing for the Social Sciences (4)



**Note:** This requirement also can be met by passing a proficiency examination. No unit credit is awarded for passing the examination. It may be necessary to take additional units to meet minimum residency and graduation unit requirements.

5. Analysis of Literature  
ENG 323. Chicano Literature (4)
6. Linguistics  
ENG 311. The English Language (4)  
**Note:** Students must maintain a "C-" or better in this course.
7. Children's Literature  
Four units chosen from:  
ENG 320. Children's Literature (4)  
ENG 327. Literature for Adolescents and Young Adults (4)

#### B. History and Social Science (28 units)

1. World Civilization I (G.E.)  
Four units chosen from:  
ANTH 140. World Civilizations I, the Rise of Civilization (4)  
HIST 140. World Civilizations I, the Rise of Civilization (4)
2. World Civilization II  
HIST 142. World Civilizations II, the Civilizations of the East and the West (4)
3. American Civilization (G.E.)  
Four units chosen from:  
HIST 146. American Civilization (4)  
HIST 200. United States History to 1877 (4)
4. American Government (G.E.)  
PSCI 203. American Government (4)
5. California History  
HIST 270. California History (4)
6. Economics  
ECON 311. Economics in the Elementary and Middle School (4)
7. Geography  
GEOG 300. Geography in the Elementary and Middle School Classroom (4)

#### C. Mathematics (18 units)

1. Ideas of Mathematics (G.E.)  
MATH 115. The Ideas of Mathematics (4)
2. Fundamental Concepts of Mathematics for Educators  
MATH 301A. Fundamental Concepts of Mathematics for Educators A: Fundamentals of Arithmetic and Geometry (4)  
MATH 301B. Fundamental Concepts of Mathematics for Educators B: Transition from Concrete to Abstract in Algebra and Geometry (4)  
MATH 301C. Fundamental Concepts of Mathematics for Educators C: Further Developments in Algebra and Geometry (4)
3. Problem Solving in Mathematics  
MATH 308. Problem Solving Through Theory and Practice (2)

**Note:** All MATH courses must be passed with a grade of "C" or better.

#### D. Science (22 units)

1. Life Sciences (G.E.)  
BIOL 100. Topics in Biology (5)
2. Physical Science (G.E.)  
Students must take both:  
CHEM 100. Chemistry in the Modern World (5)  
PHYS 100. Physics in the Modern World (5)
3. Earth and Space Science (G.E.)  
Five units chosen from:  
ASTR 311. A Cosmic Perspective of Earth (5)  
GEOG 311. The Dynamic Earth (5)  
GEOL 309. Earth: The Blue Planet (5)

4. Technology (G.E.)  
CSCI 129. Science, Computing and Society (2)

#### E. Visual and Performing Arts (13 units)

1. Art Appreciation (G.E.)  
Four units in the arts chosen from:  
ART 200. Studies in Art (4)  
MUS 180. Studies in Music (4)  
TA 260. Introduction to Theatre (4)
2. Music Activity  
MUS 370. Music for Elementary Classroom Teachers (3)
3. Theatre Activity  
Three units chosen from:  
TA 481. Creative Drama in the Classroom (3)  
TA 484. Readers Theatre in the Classroom (3)  
TA 486. Puppetry in the Classroom (3)
4. Visual Art Activity  
A minimum of three units chosen from:  
ART 395. Art in the Classroom (3)  
ART 400. Teaching Art in the Elementary Classroom (4)

#### F. Physical Education and Health (10 units)

1. Physical Education (G.E.)  
Two units chosen from:  
KINE 101. Individual and Dual Activities (2)  
KINE 114. Physical Fitness and Conditioning Activities (2)  
KINE 120. Combative and Martial Arts Activities (2)  
KINE 121. Team Activities (2)  
KINE 137. Aquatic Activities (2)  
KINE 147. A Fitness Odyssey (2)  
KINE 149. Independent Activity Project (2)  
KINE 150. Dance Activities (2)
2. Physical Fitness (G.E.)  
KINE 205. Foundations for Lifetime Fitness and Wellness (2)
3. Movement Skills  
Four units chosen from:  
DAN 481. Creative Dance in the Classroom (4)  
KINE 352. Movement for Children (4)
4. Health  
HSCI 100. Concepts in Health (2)

**Note:** Students must maintain a "C-" or better in this course.

#### G. Human Development (10 units)

1. Child Development  
HD 240. Introduction to Child Development (4)  
**Note:** Students must maintain a "C-" or better in this course.
2. Observations and Methods in Child Development  
Two units to be taken concurrently after HD 240 chosen from:  
HD 245. Observation and Methods in Child Development: Early Childhood (2)  
HD 246. Observation and Methods in Child Development: Middle Childhood (2)  
HD 247. Observation and Methods in Child Development: Adolescence (2)

3. Exceptional Child  
PSYC 350. Development of Exceptional Children (4)  
**Note:** Students must maintain a "C-" or better in this course.

#### H. Additional General Education Requirements (20 units)

1. Critical Thinking (G.E.)  
Four units chosen from:  
COMM 180. Critical Thinking Through Argumentation (4)  
HON 104A.\* Language and Meaning: Critical Thinking (4)  
(open only to Honors Program students)  
MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)  
PHIL 105. Critical Thinking Through Argument Analysis (4)  
PHIL 200. Critical Thinking Through Symbolic Logic (4)  
PSYC 105. Critical Thinking Through Problems Analysis (4)  
SOC 180. Critical Thinking About Social Problems (4)

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2. Philosophy (G.E.)  
Four units chosen from:  
HON 104B.\* Language and Meaning: Introduction to Philosophy (4) (open only to Honors Program students)  
PHIL 190. Introduction to Philosophical Issues (4)  
PHIL 191. Introduction to Ethics (4)  
PHIL 192. Introduction to Philosophy of Religion (4)  
PHIL 193. Introduction to Eastern Philosophy (4)  
PHIL 194. Introduction to Knowledge and Reality (4)
3. Foreign Language (G.E.)  
Four units chosen from:  
SPAN 212. Composition (4)  
SPAN 213. Composition for Heritage/Native Speakers (4)
4. Integrative Capstone in the Humanities (G.E.)  
HUM 335. The Origin and Contemporary Role of Latino Culture (4) (Students must maintain a grade of "B" or above in this course.) (Meets Multicultural/Gender Category G1 in G.E.)
5. Integrative Capstone in the Social and Behavioral Sciences (G.E.)  
SSCI 304. Contemporary Latin America (4)
- I. Additional Liberal Studies Requirements (8 units)**
  1. Assessment (4 units)  
HUM 197. Assessment Preparation I in Liberal Studies (1)  
**Note:** Must be taken during the first quarter of enrollment.  
HUM 397. Assessment Preparation II in Liberal Studies (1)  
HUM 597. Senior Assessment in Liberal Studies (2)  
**Note:** Must be taken in either of last two quarters before graduation.
  2. Classroom Experiences (4 units)  
EELB 230. Introduction to Education (4)
- J. Spanish Studies (21 units)**
  1. Upper division Spanish language skills  
SPAN 302. Theory and Practice in Composition (4)  
SPAN 395. Junior Assessment (1)  
SPAN 415. Comparative Linguistics: Spanish/English (4) (Students must maintain a grade of "B" or above in this course.)
  2. Spanish Studies Electives  
Twelve units chosen from any upper division Spanish classes not taken under another category and from the following:  
ANTH 330. Cross-Cultural Child-Rearing Practices (4)  
ANTH 354. Cultures of Mexico and Central America (4)  
ANTH 356. Cultures of South America (4)  
ANTH 388. Language and Culture (4)  
ART 328. Mexican Art (4)  
ART 329. Chicano Art (4)  
FLAN 320. Masterpieces of Literature (4) (when the topic is Spanish or Latin American Studies)  
HIST 390. History of Modern Mexico (4)  
HIST 391. Chicano History (4)  
HIST 470. Modern Latin America (4)  
MUS 351. Latin American Music (4)

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**B.A. IN LIBERAL STUDIES -****ARTS AND LETTERS TRACK (Non-credential)****Requirements (77 units)**

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**Total units required for graduation: 180**

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**Requirements for the B.A. in Liberal Studies - Arts and Letters Track:****1. Arts and Letters Interdisciplinary Concentration Requirements (36 units)**

Thirty-six units required to be selected from one of the following five groupings of courses offered by the departments and disciplines listed. Within the selected grouping, no more than 20 units may be taken in any one discipline and a minimum of 18 units must be at the 300-level or above. (Courses used to meet General Education requirements may not be used again in the concentration.) Courses must be selected and approved with the assistance of an advisor. A list of recommended courses approved for use in each category and department can be obtained from the Liberal Studies program office.

- a. Fine Arts: Art, Dance, Music, Theatre
- b. Literature: English, World Languages and Literatures
- c. Languages and Linguistics: English and Foreign Languages
- d. Media Arts: Communications Media, Graphic Design, Music Technology, Photography
- e. Humanities: Must include courses from a minimum of three of the following areas: Communication Studies, English, Humanities, Philosophy, World Language and Literatures, or one of the Arts (music, theatre, art, dance)

**2. Skills Requirements (12 units)**

A minimum of four units from each of the following three categories:

**1. Communication Skills**

Four units chosen from:

- COMM 221. Small Group Communication (4)  
COMM 225. Fundamentals of Interpersonal Communication (4)  
COMM 240. Writing for Media (4)  
COMM 308. Argumentation (4)  
COMM 311. Business and Professional Communication (4)  
COMM 312. Persuasion (4)  
COMM 344. Public Relations Communication (4)  
ENG 240. Writing in the Public Sphere (4)  
ENG 316. Introduction to Creative Writing: Specialized Genres (4)  
ENG 317. Introduction to Creative Writing: Poetry (4)  
ENG 318. Introduction to Creative Writing: Fiction (4)  
ENG 417. Intermediate Creative Writing: Poetry (4)  
ENG 418. Intermediate Creative Writing: Fiction (4)  
ENG 507. Advanced Creative Writing: Poetry (4)  
ENG 508. Advanced Creative Writing: Fiction (4)  
ENG 513. Advanced Creative Writing: Specialized Genres (4)  
ENG 542. Literary Publications (4)  
MGMT 350. Administrative Communication (4)

**2. Computer Skills**

A minimum of four units chosen from:

- ART 123. Introduction to Art and Technology (4)  
ART 232. Principles of Design Management (4)  
ART 238. Production of Visual Information Design (4)  
ART 320. Digital Image Editing (5)  
ART 322. Web Design (5)  
ART 326. Interactive Multi-media Design (5)

- CSCI 133. Using Word Processors and Presentation Software (2)
- CSCI 134. Using Spreadsheet and Database Software (2)
- CSCI 160. Computer Graphics for the Internet (4)
- CSCI 201. Computer Science I (4)
- CSCI 298. Application Software Topics (2)
- EVOC 519. Computer Applications for Vocational Education Teachers (4)
- GEOG 202. Introduction to Geographical Information Systems and Mapping (5)
- HSCI 273. Software Applications in the Health Sciences (4)
- INFO 103. Using Information Technology Applications (2)
- 3. **Research Techniques Skills:**  
A minimum of four units chosen from:
  - COMM 400. Communication Research Methodologies (4)
  - CJUS 311. Research Methods in Criminal Justice (4)
  - CJUS 312. Statistics in Criminal Justice (4)
  - ECON 250. Statistics for Economists (4)
  - GEOG 305. Geographical Statistics and Research Methods (4)
  - HSCI 498. Undergraduate Research Methodology in Health Science (4)
  - MATH 262. Applied Statistics (4)
  - MATH 305. Statistics: Hypothesis Testing and Estimation (4)
  - MKTG 416. Marketing Research (4)
  - PHIL 306. Inductive Logic and the Probability of Calculus (4)
  - PSCI 375. Introduction to Political Science Research (4)
  - PSYC 210. Psychological Statistics (5)
  - SCM 210. Applied Business Statistics (4)
  - SOC 307. Social Research (5)
  - WSTD 300. Feminist Research Methods (4)
- 3. **Minor Field (Minimum of 24 units)**  
The Minor must include a minimum of 16 units at the 300-level or above. Courses used to meet the Arts and Letters concentration requirements may not be used again in the minor. (See page 56-57 of the *University Bulletin* for a listing of minors available and where to find a listing of the courses required in each.) Minors vary in size and range from 24-42 units.
- 4. **Culminating Experience (5 units)**
  - 1. HUM 497. Senior Assessment (1) to be taken during last quarter before graduation.
  - 2. A four-unit Independent Study Project to be completed in one of the disciplines used for the Concentration (#1) or Minor (#3) areas. This project should result in a significant written paper reporting on the research project carried out and should include a concluding essay relating the research topic to other courses and subjects in the area of Concentration or Minor and summarizing the student's accomplishments in the Liberal Studies major. Students will enroll in the appropriate independent study course offered by the department of the faculty member who has agreed to supervise this project.
- 5. **Free Electives**  
To be used if needed to reach minimum of 180 total units for the BA degree.

# MANAGEMENT

## Department of Management

Jack Brown Hall, Room 461  
(909) 537-5731 <http://www.cbpa.csusb.edu/management/>

**FACULTY:** Melissa Bakeman-Hartmann, Jace Baker, G. R. Bassiry, Shel Bockman, Karen Dill Bowerman, Foad Derakhshan, Donald Drost, Lee Hanson (Chair), Steve Levy (Emeritus), Janice Loutzenhiser, Patrick McInturff, Clark Molstad, Gary Patterson, Lloyd Peake, Patricia Reed, Ernesto Reza, Cynthia Schreihans, Michael Stull, Margaret Takeda

The university offers concentrations in management within the Bachelor of Arts in Administration and the Master of Business Administration. Concentrations are offered under the B.A. in Management: Entrepreneurial Management, and the B.S. in International Business. The details of these programs are listed under Administration on Page 72. The Master of Business Administration can be found on Page 365. The courses listed below are offered in support of these programs. Further information is available from the Department of Management.

The Management Department encourages its majors to take part in the California State University's International Programs. This program provides opportunity for CSUSB students to study in a foreign country and earn full resident credit for these studies. Participation in this program will enhance the student's ability to study and work in an international business setting.

For students in management, International Programs are particularly useful in an increasingly competitive global environment where knowledge of diverse cultures, beliefs and societies is essential for success in business. By joining the California State University's International Programs students will have taken a major step in preparing themselves for rewarding careers in the business world of the future. For further information see Page 20.

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## COURSE OFFERINGS IN MANAGEMENT (MGMT)

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### Lower Division

#### 100. Introduction to Business and Public Administration

Introduction to the administrative process. Strategies to achieve success in business and public careers. Includes the development of administrative theories and practices and provides an overview of the functional areas of business and public administration. Examines the questions of ethics, small business management and the global aspects of administration. (4 units)

#### 230. Business Law

An introduction to statutory and common law developments impacting commercial transactions. Emphasizes principles of contract law and sale of goods under the Uniform Commercial Code. Additional topics include business organizations, commercial paper and secured transactions. (MGMT 230=CAN BUS 8) (4 units)

### Upper Division

Enrollment in upper division courses restricted to students who have met all prerequisites and have completed at least 90 quarter units (junior class level). Students who do not meet these requirements will be disenrolled.

#### 302. Management and Organizational Behavior

Introduction to management as it affects operations and the behavior of people in relation to the functional fields of administration. Selected behavioral concepts analyzed with respect to applications in management. (Also offered as PSYC 302. Students may not receive credit for both.) (4 units)

#### 306. Expository Writing for Administration

Writing related to business and public administration including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. May not be counted for fulfilling concentration requirements for any degree program offered by the College of Business and Public Administration. No more than one of the expository writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly MGMT 495. Graded A, B, C/no credit. Prerequisites: ENG 101 and a minimum of 90 quarter (60 semester) units of college credit. (GE=F1) (4 units)

#### 307. Introduction to Transportation Management

Examines the evolution of major transportation modes: air, water, rail, and truck, including their historical and technological evolution and their economic and operational characteristics. Plans for negotiating prices and services with carriers are discussed. (4 units)

#### 324. International Environmental Management

Examines the managerial issues relating to environmental and resource policies in the global economy, focusing on the global environment impact of multinational competition, international treaties, and waste distribution. (4 units)

#### 330. Legal Environment of Business

Study of the legal system; nature and source of law as applied to business activity; statutes and significant cases involving business policies; effect of public policies on private enterprise system. Prerequisite: MGMT 230. (4 units)

#### 335. Business and Society

Evaluation of American business systems; legal and social factors influencing business; role of business in alleviating society's problems; problems and issues of current concern regarding women and minorities in management, business and society in a global context. (4 units)

#### 350. Administrative Communications

Introduction to communication theory. Concepts, analysis and methods of improvement for interpersonal communication, communication within organizations and communication between organizations and their external environments. (4 units)



**402. Studies in Organizational Behavior**

Review and presentation of selected areas of behavioral science research and its application to management practices. Selected subjects may include: motivation, communication, change and leadership. Prerequisite: MGMT 302 or PSYC 302. (4 units)

**405. International Management**

Identification of the diverse factors, actors and forces that shape the global business environment. Comparative analysis of management practices in various cultures with emphasis on sociocultural, political and economic influences. Need for adaptation of business practices to local environment is stressed. Prerequisite: MGMT 302 or PSYC 302. (4 units)

**406. International Business Law**

Comparison and contrast of the various dimensions of international business transactions. General legal framework in which international business is conducted; competing national laws and courts systems with respect to a variety of typical international business problems; international institutions and prospects for internationalizing the legal treatment of transnational business operations. (4 units)

**407. Comparative Management Systems of the Americas**

Comparative analysis of private and public sector organizations and corresponding management systems currently operating throughout the Americas. Examination of the structure and management systems of private and public sector organizations in different American countries and the trade patterns among these nations. (4 units)

**442. Small Business Management**

Managerial considerations for the small business entrepreneur. Acquisitions, location, legal considerations, finances, taxation, labor relations and other topics. (4 units)

**450. Logistics Management and Regulation**

Covers documentation and compliance requirements in logistics operations between two or more organizations. Examines impact and contexts of political pressures on the regulatory process, including regulations by local, state, and national governments as well as international bodies. Prerequisite: MGMT 307. (4 units)

**451. Organization and Management Theory**

Development and analysis of organization and management theory. Comparative analysis seeking patterns and systematic explanation of differences among organizations. Dynamics of interaction between organizations and environment. Prerequisite: MGMT 302 or PSYC 302. (4 units)

**455. Human Resources Management**

Policies related to human resources; human resources planning, employee selection and development, performance appraisal, compensation, relationships with unionized employees, collective bargaining. Prerequisite: MGMT 302 or PSYC 302. (4 units)

**456. Developing an Effective Workforce**

Theory and practice of employee selection, training, and performance appraisal. Prerequisites: MGMT 455 or PSYC 355. (4 units)

**457. Industrial and Labor Relations**

Analysis of historical, political, legal, economic and managerial forces which lead to the development of labor unions and collective bargaining. Focus on legal rights of employees and managerial rights of employer. Involves case law and bargaining simulation. (4 units)

**458. Fair Employment Practices**

An evaluation of fair employment practices in employment. Course emphasizes antidiscriminatory legislation and its application to employer-employee relationships. Prerequisite: MGMT 455. (4 units)

**459. Work Group Management**

Examination of the dynamics of task-oriented groups in American and international environments, utilizing both conceptual and experiential learning. Prerequisite: MGMT 302 or PSYC 302. (4 units)

**490. Strategic Management**

This college capstone course develops an overall general manager's perspective of strategic management and competitive strategy integrating knowledge from accounting, finance, information and decision sciences, production, management, marketing, and public policy. Coverage includes competitive strategy for global, national and regional/local business and managerial concerns regarding social and environmental issues. Emphasis is on cases, small-group work, and preparation of required business plan. Prerequisites: completion of the upper-division administration core courses (one course may be taken concurrently), the upper-division writing requirement, and senior standing. (4 units)

**515. Business Consulting**

Supervised consulting assignments designed to provide meaningful business assistance to businesses. Prerequisites: senior status, consent of instructor and college. (4 units)

**520. Legal Regulation of Intellectual Property**

Analysis of federal, state and international law on intellectual property and technology, including principles of contract law, intellectual law, taxation law, tort law, anti-trust law and criminal law with respect to technology and intellectual property. Prerequisites: MGMT 230 and 330. (4 units)

**531. Sports Management**

Theory and analysis of the factors, participants, evaluation methods of modern sports and entertainment management. (4 units)

**533. Sports and Hospitality Business Law**

Legal issues and policies impacting sports management and business, including contracts, labor law, negotiations and constitutional issues integral to the field of sports and hospitality management. (4 units)

**541. Commercializing Entrepreneurial Innovation**

Examines the process of commercializing innovations and emerging technologies in entrepreneurial driven companies. Focus on understanding the strategy, tactics and behaviors necessary to manage the transition from basic development stages to commercial venture, examining the role of innovation assessment, intellectual property protection, technology transfer and licensing. (4 units)

**543. Entrepreneurial Opportunity Analysis**

Process of defining and identifying the difference between ideas and opportunities including the role of the entrepreneur, ideas, pattern recognition, and the evaluation and screening process that leads to successful commercialization of business concepts and ideas. (4 units)

**545. Entrepreneurial Resource Requirements**

Strategies and techniques employed by entrepreneurs to identify and access critical resources. Special emphasis on marshalling internal and external resources such as advisors, board of directors, and social networks. (4 units)

**256 / Management****547. Managing a Growing Business**

Study of the basic strategy and tactics to manage growing enterprises while still maintaining an entrepreneurial spirit. Examines the role of management decision making, management control systems, short- and long-term planning, and entrepreneurship in managing growing companies. (4 units)

**549. Launching the Entrepreneurial Venture**

Process and methods involved in starting and growing new enterprises with emphasis on the attributes of entrepreneurs, entrepreneurial careers and positioning an enterprise for sustainable growth. (4 units)

**575. Internship in Management**

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: senior standing preferred, consent of instructor and the department's internship coordinator. (4 units)

**580. Business Game Competition**

Competition based on a business game simulation that is designed to enable advanced business students to integrate and apply the theories of their various business courses. Formerly a topic under MGMT 590. Students may not receive credit for both. (4 units)

**590. Seminar in Management**

Intensive study of some phase of management to be developed by the instructor. May be repeated for credit as topics change. (2-4 units)

**595. Independent Study**

Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (2 or 4 units)

**998. Baccalaureate Reflective Essay**

Submission of a reflective essay based on departmental guidelines. Prerequisites: completion of or concurrent enrollment in all courses in the student's area of concentration. (0 units)

# MARKETING

## Department of Marketing

Jack Brown Hall, Room 458  
(909) 537-5749 <http://www.cbpa.csusb.edu/marketing/>

**FACULTY:** Fred Hebein, Vic Johar, Norton Marks, Eric Newman, Lloyd Peake (Interim Chair), Nabil Razzouk, Victoria Seitz

The university offers a concentration in marketing within the Bachelor of Arts in Administration, the Bachelor of Science in Administration and the Master of Business Administration. The details of these programs are listed under Administration on Page 72 and the Master of Business Administration can be found on Page 365. The courses listed below are offered in support of these programs. Further information is available from the Department of Marketing.

In today's business world, growing numbers of U.S. companies both large and small are getting involved in international marketing. Because of this increased involvement in international business, marketing students are encouraged to participate in the California State University's International Program. For further information, see Page 20.

**NOTE:** Special B.A. program in Advertising Management.

A number of students have found that clustering related courses in business and art is useful in reaching their career goals. A pre-approved special interdisciplinary curriculum combining coursework in art, management, and marketing has been authorized by the University Curriculum Committee. Only a limited number of students may be accommodated at this time. Students wishing to inquire about this program or apply for a Special Major in Advertising Management should contact the Department of Marketing for details.

## COURSE OFFERINGS IN MARKETING (MKTG)

### Upper Division

Enrollment in upper division courses restricted to students who have met all prerequisites and have completed at least 90 quarter units (junior class level). Students who do not meet these requirements will be disenrolled.

#### 305. Marketing Principles

Overview of the field of marketing and its interactions with other aspects of business. Includes consumer and industrial buying behavior; target marketing, segmentation, positioning, and differentiation; marketing research; product, distribution, promotion, and pricing decisions; industrial, services, and international marketing as well as legal and ethical dimensions. Prerequisite: junior standing. (4 units)

#### 410. Consumer Behavior

Consumer decision processes in the consumptive role including internal and external influences on consumer behavior and marketing strategies. Prerequisite: MKTG 305. (4 units)

#### 415. Product Management

Techniques and processes of product development and product management. Topics include idea generation, screening, design, testing and commercialization. Introduces basic product management techniques such as brand switching, product adoption forecasting, and customer preference specification. Prerequisite: MKTG 305. (4 units)

#### 416. Marketing Research

Marketing research as an activity of information gathering, analysis and interpretation for input into management decision making. Application of current practices and techniques in the marketing research industry. Requires the use of statistical software. Three hours lecture and two hours activity laboratory. Prerequisite: MKTG 305. (4 units)

#### 420. Advertising

Stimulation of market demand through advertising media, including printed messages, radio and television, developing the advertising appeal, selecting the media, placing copy and measuring results, as well as legal, ethical and international aspects of advertising. Prerequisite: MKTG 305. (4 units)

#### 430. Professional Selling and Sales Management

Develops interpersonal communication skills used in the selling of products and services. Skills in prospecting, questioning and listening, understanding needs, demonstrating and explaining products, overcoming objections and closing the sale. Introduces managerial techniques used to supervise a sales force and to analyze company sales. Emphasis on recruitment, training, motivation and evaluation of salespeople. Prerequisite: junior standing. (4 units)

#### 436. Marketing Decision-Making

Reinforcing concepts learned in Marketing Principles, students will analyze, evaluate and develop product, price, promotion and physical distribution marketing programs. Emphasis is placed on analytical techniques and case studies to develop effective student decision-making skills in the major functional areas of marketing. Three hours lecture and two hours laboratory. Prerequisite: MKTG 305. (4 units)

#### 438. Industrial Marketing

Overview of industrial marketing strategy and management. Emphasis on industrial buyer behavior, market and product planning, pricing strategy, and distribution. Analysis of institutional practices including competitive bidding, request for proposals, negotiation, and channel management. Prerequisite: MKTG 305. (4 units)

#### 446. Advertising Campaign

Development of a full marketing and advertising campaign for a client's regional or national product or service offered as needed basis for student competitions or grant opportunities. Three hours lecture and two hours activity laboratory. Prerequisite: MKTG 305 or consent of instructor. (4 units)

#### 460. Retailing

History, development, organization and management of retail institutions. Emphasis is on retail store operations, such as location, layout, planning, control of budgets, human resource planning, pricing and customer service. Prerequisite: MKTG 305 or consent of instructor. (4 units)

#### 462. Merchandising

Analysis of merchandise buying. Emphasis is on the buyer's roles, responsibilities and activities. Subjects include merchandise planning, budgeting, inventory control, pricing, vendor relations, and sourcing. Three hours lecture and two hours activity laboratory. Prerequisites: MKTG 305 and consent of instructor. (4 units)

#### 470. International Marketing Management

Marketing strategies for developing global markets including the cultural, political, and economic infrastructure of foreign markets and their impact on traditional marketing decisions. Prerequisite: MKTG 305 or consent of instructor. (4 units)

**258 / Marketing****496. Marketing Planning and Strategy**

An integrative approach to strategic marketing management including the planning, design and execution of a comprehensive situation analysis, identification and evaluation of strategic marketing alternatives, and the implementation of marketing plans and programs and an applied knowledge of SPSS or any other data analysis software package. Three hours lecture and two hours computer laboratory. Prerequisites: MKTG 410, 416 and 436. (4 units)

**520. Integrated Marketing Communication**

An integrated perspective on the process of communicating marketing messages to promote products, services, ideas, people, causes and events. Advertising, direct marketing, personal selling, public relations, and sales promotion strategies are explored with consideration given to global, ethical, and technology-related issues. (Also offered as COMM 520. Students may not receive credit for both.) (4 units)

**525. Sports and Entertainment Marketing**

Examination of the theoretical and practical aspects of marketing management in the sports and entertainment industry. Formerly a topic under MKTG 590. (4 units)

**530. Strategic Entrepreneurship**

The role of entrepreneurship in today's economy: identifying entrepreneurial opportunities, designing incubator business projects, strategic entrepreneurial alliances and global market strategies for entrepreneurial ventures. The role of marketing mix in the start up and operation of entrepreneurial ventures. Formerly a topic under MKTG 590. Prerequisite: junior standing. (4 units)

**540. E-Marketing**

Development of a web-based marketing program. Discussion of customer data bases, logistics of E-marketing, and the flow of products, funds, and information in E-channels. Focus is on understanding how goods and services are created and delivered through the web. Three hours lecture and two hours laboratory. Formerly a topic under MKTG 590. (4 units)

**550. Advanced Sports Marketing Planning and Strategy**

An integrative approach to strategic sports marketing management providing theoretical and practical aspects of marketing management in the sports industry. Topics include the planning, design and execution of a comprehensive situation analysis, identification and evaluation of strategic marketing alternatives, and the implementation of marketing plans and programs. Three hours lecture and two hours computer laboratory. Prerequisite: MKTG 525 or consent of instructor. (4 units)

**555. Advanced Entertainment Marketing Planning and Strategy**

An integrative approach to strategic entertainment marketing management providing theoretical and practical aspects of marketing management in the entertainment industry. Topics include the planning, design and execution of a comprehensive situation analysis, identification and evaluation of strategic marketing alternatives, and the implementation of marketing plans and programs. Three hours lecture and two hours computer laboratory. Prerequisites: MKTG 525 or consent of instructor. (4 units)

**560. Services Marketing**

The process of designing and marketing intangible services for profit and non-profit organizations. Emphasis on customer-focused strategies for developing, promoting, pricing and evaluating service mixes in a global context. Formerly a topic under MKTG 590. Prerequisite: junior standing. (4 units)

**565. Logistics**

Science of movement, storage, delivery and distribution. Topics include channels of distribution, purchasing, customer service, inventory types and functions. Formerly MKTG 450. Prerequisite: MKTG 305. (4 units)

**572. Import-Export Management**

Current practices and opportunities in importing and exporting goods with emphasis on preparing products for foreign shipment, shipping, necessary documentation and use of free trade zones. Formerly MKTG 472. Prerequisite: MKTG 305 or consent of instructor. (4 units)

**575. Internship in Marketing**

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

**590. Seminar in Marketing**

An intensive study of some phase of marketing to be developed by the instructor. May be repeated for credit as topics change. (4 units)

**595. Independent Study**

Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (1-5 units)



# MATHEMATICS

## Department of Mathematics

Jack Brown Hall, Room 370  
(909) 537-5361 <http://www.math.csusb.edu/>

### Bachelor of Arts

- Mathematics
- Mathematics - Teaching Track
- Mathematics - Integrated Teaching Track

### Bachelor of Science

- Mathematics

### Teaching Credential Program

- Mathematics

### Minor

- Mathematics

### Master of Arts

- Mathematics
- (Degree requirements can be found on Page 468.)

### Master of Arts in Teaching

- Mathematics
- (Degree requirements can be found on Page 469.)

### Certificate Programs

- Introductory Actuarial Science
- Teaching Basic Mathematics

**FACULTY:** Susan Addington, Joyce Ahlgren, Joseph Chavez (MA Coordinator), Corey Dunn, Nadia Dyakevich, Hajrudin Fejzic, Davida Fischman (MAT Coordinator), Christopher Freiling, Gary Griffing, Ilseop Han, Zahid Hasan, Madeleine Jetter, Yuichiro Kakiyama, Min-Lin Lo, Giovanna Lloset, Shawnee McMurran, Jim Okon, Chetan Prakash, Dan Rinne, John Sarli, Charles Stanton, Robert Stein, Rolland Trapp, Belisario Ventura, Paul Vicknair, Laura Wallace, Wenxiang Wang, Peter Williams (Chair)

As the role of mathematics in society continues to grow, the value of a solid foundation in mathematics is reinforced. The Department of Mathematics offers a broad program of university course work with a liberal arts emphasis, leading either to a bachelor of arts or to a bachelor of science degree. Such a program of study is flexible enough to prepare a student for positions in industry, business, teaching, or for advanced study toward a graduate degree in mathematics.

Additionally, double majors are not uncommon since the Departments of Computer Science and Engineering and Physics work closely with the Department of Mathematics in structuring their mathematically based courses.

The department offers two graduate degrees. The Master of Arts degree emphasized mathematical content courses and is appropriate for those planning a career in teaching at the junior college level, or those considering further graduate work. The Master of Arts in Teaching offers a curriculum of combined mathematics and pedagogy courses, making it ideal for middle and high school mathematics teachers. The emphasis is on deepening and broadening the student's knowledge of the mathematics that underlies the high school curriculum. Core courses for both programs are offered in the evening to accommodate the working student. For information on these degrees, see Page 468

In many ways mathematics functions as a universal language in today's global culture. Upper-division students are encouraged to participate in the California State University's International Programs. For further information, see Page 20.

## B.A. IN MATHEMATICS

### Requirements (74 units)

**Total units required for graduation: 180**

### Requirements for the B.A. in Mathematics:

#### Lower-division requirements (30 units)

1. CSCI 201. Computer Science I (4)
2. MATH 211. Basic Concepts of Calculus (4)
3. MATH 212. Calculus II (4)
4. MATH 213. Calculus III (4)
5. MATH 241. Problem Solving in Calculus (2)
6. MATH 251. Multivariable Calculus I (4)
7. MATH 252. Multivariable Calculus II (4)
8. MATH 270. Elementary Differential Equations (4)

#### Upper-division requirements (32 units)

1. MATH 329. Transformation Geometry (4)
2. MATH 331. Linear Algebra (4)
3. MATH 345. Number Theory and Proof (4)
4. MATH 355. Analysis and Proof (4)
5. MATH 372. Combinatorics (4)
6. MATH 465. Probability Theory (4)
7. MATH 545. Abstract Algebra I (4)
8. MATH 553. Analysis I (4)

#### Electives (12 units)

1. Twelve units of mathematics electives chosen from the following in consultation with an advisor:
  - MATH 320. Mathematical Interest Theory (4)
  - MATH 411. Introduction to Mathematical Logic (4)
  - MATH 455. Fourier Analysis (4)
  - MATH 470. Ordinary Differential Equations (4)
  - MATH 474. Numerical Methods (4)
  - MATH 480. Topics in History of Mathematics (4)
  - MATH 510. Topics in Mathematics (4)
  - MATH 529. Advanced Geometry (4)
  - MATH 531. Advanced Linear Algebra (4)
  - MATH 546. Abstract Algebra II (4)
  - MATH 554. Analysis II (4)
  - MATH 555. Introduction to Point-Set Topology (4)
  - MATH 557. Complex Variables (4)
  - MATH 565. Mathematical Statistics (4)
  - MATH 570. Partial Differential Equations (4)
  - MATH 576. Introduction to Mathematical Models (4)
  - MATH 595D. Independent Study (4)

## B.A. IN MATHEMATICS - Teaching Track

### Requirements (89 units)

**Total units required for graduation: 180**

### Requirements for the B.A. in Mathematics - Teaching Track:

#### Lower-division requirements (25 units)

1. MATH 199. Technology in Math Education through Problem Solving (3)
2. MATH 211. Basic Concepts of Calculus (4)
3. MATH 212. Calculus II (4)
4. MATH 213. Calculus III (4)
5. MATH 241. Problem Solving in Calculus (2)
6. MATH 251. Multivariable Calculus I (4)
7. MATH 252. Multivariable Calculus II (4)

## Upper-division requirements (52 units)

1. MATH 329. Transformation Geometry (4)
2. MATH 331. Linear Algebra (4)
3. MATH 345. Number Theory and Proof (4)
4. MATH 355. Analysis and Proof (4)
5. MATH 372. Combinatorics (4)
6. MATH 399. Service Learning Experience in Mathematics (2)
7. MATH 465. Probability Theory (4)
8. MATH 480. Topics in History of Mathematics (4)
9. MATH 499. Mathematics in the Secondary Classroom (4)
10. MATH 529. Advanced Geometry (4)
11. MATH 545. Abstract Algebra I (4)
12. MATH 553. Analysis I (4)
13. MATH 565. Mathematical Statistics (4)
14. MATH 599. Senior Seminar for Future Mathematics Educators (2)

## Electives (12 units)

1. Twelve units chosen from the following in consultation with an advisor:
  - MATH 270. Elementary Differential Equations (4)
  - MATH 320. Mathematical Interest Theory (4)
  - MATH 411. Introduction to Mathematical Logic (4)
  - MATH 455. Fourier Analysis (4)
  - MATH 470. Ordinary Differential Equations (4)
  - MATH 474. Numerical Methods (4)
  - MATH 510. Topics in Mathematics (4)
  - MATH 531. Advanced Linear Algebra (4)
  - MATH 546. Abstract Algebra II (4)
  - MATH 554. Analysis II (4)
  - MATH 555. Introduction to Point-Set Topology (4)
  - MATH 557. Complex Variables (4)
  - MATH 570. Partial Differential Equations (4)
  - MATH 576. Introduction to Mathematical Models (4)
  - MATH 595D. Independent Study (4)

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**B.A. IN MATHEMATICS - Integrated Teaching Track****Requirements (127 units)****Total units required for graduation: 201**

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**Requirements for the B.A. in Mathematics - Integrated Teaching Track:**

This program allows prospective single-subject teachers the opportunity to earn their Bachelor of Arts in Mathematics and Single Subject Credential concurrently. A full-time student can expect to complete the program within thirteen quarters. Students in this program may apply to the Single Subject Teaching Credential Program once they have reached junior status and satisfy the requirements listed below. Students must be accepted into the single subject teaching credential program prior to enrolling in supervision classes ESEC 550B and ESEC 550C.

## Lower-division requirements (25 units)

1. MATH 199. Technology in Math Education through Problem Solving (3)
2. MATH 211. Basic Concepts of Calculus (4)
3. MATH 212. Calculus II (4)
4. MATH 213. Calculus III (4)
5. MATH 241. Problem Solving in Calculus (2)
6. MATH 251. Multivariable Calculus I (4)
7. MATH 252. Multivariable Calculus II (4)

## Upper-division requirements (52 units)

1. MATH 329. Transformation Geometry (4)
2. MATH 331. Linear Algebra (4)
3. MATH 345. Number Theory and Proof (4)
4. MATH 355. Analysis and Proof (4)
5. MATH 372. Combinatorics (4)
6. MATH 399. Service Learning Experience in Mathematics (2)
7. MATH 465. Probability Theory (4)
8. MATH 480. Topics in History of Mathematics (4)
9. MATH 499. Mathematics in the Secondary Classroom (4)
10. MATH 529. Advanced Geometry (4)
11. MATH 545. Abstract Algebra I (4)
12. MATH 553. Analysis I (4)
13. MATH 565. Mathematical Statistics (4)
14. MATH 599. Senior Seminar for Future Mathematics Educators (2)

## Education Courses (42 units)

1. ESEC 405. Introduction to Secondary School Culture (4)
2. ESEC 407. Secondary School Teaching (4)
3. ESEC 410. Adolescent Development and Learning (4)
4. ESEC 413. Language Interaction in the Classroom (4)
5. ESEC 417. Educational Psychology: Instructional Theory, Assessment and Classroom Management (4)
6. ESEC 419. Literacy Across the Curriculum (4)
- 7.. ESEC 502. Special Topics for Undergraduates in Secondary Education (2)
8. ESEC 512. Principles of Pedagogy (2)
9. ESEC 514. Assessment and Reflection of Instruction (2)
10. ESEC 550B. Student Teaching (4)
11. ESEC 550C. Student Teaching (8)

## Electives (8 units)

1. Eight units chosen from the following in consultation with an advisor:
  - MATH 270. Elementary Differential Equations (4)
  - MATH 320. Mathematical Interest Theory (4)
  - MATH 411. Introduction to Mathematical Logic (4)
  - MATH 455. Fourier Analysis (4)
  - MATH 470. Ordinary Differential Equations (4)
  - MATH 474. Numerical Methods (4)
  - MATH 510. Topics in Mathematics (4)
  - MATH 531. Advanced Linear Algebra (4)
  - MATH 546. Abstract Algebra II (4)
  - MATH 554. Analysis II (4)
  - MATH 555. Introduction to Point-Set Topology (4)
  - MATH 557. Complex Variables (4)
  - MATH 570. Partial Differential Equations (4)
  - MATH 576. Introduction to Mathematical Models (4)
  - MATH 595D. Independent Study (4)

**Admission to the Single Subject Teaching Credential Program and Student Teaching**

1. Requirements for entering the Single Subject Teaching Credential Program:
  - a. Junior status (90 quarter units);
  - b. Cumulative grade point average of 2.67 or higher;
  - c. Completion of lower division coursework;
  - d. Verification of a negative tuberculin examination within the last 24 months;
  - e. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
  - f. Successful completion of the California Basic Educational Skills Test (CBEST);

- g. Two written recommendations from faculty members in the Department of Mathematics;
  - h. Advising session with and signature of a Secondary Education Faculty member on an advising form or attendance at a program advisory meeting to determine requirements of the program;
  - i. Completion of or concurrent enrollment in the upper-division writing requirement at the university or the equivalent graduation requirement at another accredited institution, or a score of 39 or better in the written portion of the CBEST (CBEST exam does not meet the graduate entrance writing requirement for the Master of Arts degree);
  - j. In addition, the following criteria are considered: professional aptitude, personality and character, oral and written language usage, and interest in multicultural education;
  - k. Submission of a Program Application File (PAF) to the Credentials Office, CE-102, at least one quarter prior to enrollment in Credential coursework.
2. Requirements for admission to supervision:
    - a. Demonstration of Subject Matter Competency in mathematics by having completed 72 units in mathematics applicable to the B.A. in Mathematics – Integrated Teaching Track;
    - b. A grade point average of 2.67 in all baccalaureate course work;
    - c. Completion of ESEC 405, ESEC 407, and MATH 399;
    - d. A grade point average of 3.0 ("B") in professional education course work with no course grade in this area lower than "B." Students can only discount one grade in the program courses. They can only repeat a total of two courses in the program.
  3. Additional requirements for the Single Subject Credential:
    - a. Current or valid CPR certification that includes Infant, Child, and Adult.
- Also, note the following:
- a. No candidate may be recommended for the credential who has received a grade less than "C" (2.0) in any other course required for the credential, such as health science courses.
  - b. All course work taken at another institution, or more than seven years ago, is subject to approval by the Director of the Single Subject Program. No more than 14 quarter units of the credential program may be transferred. Student teaching is never transferable. Students transferring units from another institution may be required to take HSCI 100 and ESPE 350.
  - c. Students who fail to successfully complete any program courses will be denied continuation in the program. An appeals process is available. Consult the Teacher Education Office for details.

## **B.S. IN MATHEMATICS**

### **Requirements (102-120 units)**

#### **Total units required for graduation: 180-182**

### **Requirements for the B.S. in Mathematics:**

#### **Lower-division requirements (30 units)**

1. CSCI 201. Computer Science I (4)
2. MATH 211. Basic Concepts of Calculus (4)
3. MATH 212. Calculus II (4)
4. MATH 213. Calculus III (4)
5. MATH 241. Problem Solving in Calculus (2)
6. MATH 251. Multivariable Calculus I (4)
7. MATH 252. Multivariable Calculus II (4)
8. MATH 270. Elementary Differential Equations (4)

#### **Upper-division requirements (32 units)**

1. MATH 329. Transformation Geometry (4)
2. MATH 331. Linear Algebra (4)
3. MATH 345. Number Theory and Proof (4)
4. MATH 355. Analysis and Proof (4)
5. MATH 372. Combinatorics (4)
6. MATH 465. Probability Theory (4)
7. MATH 545. Abstract Algebra I (4)
8. MATH 553. Analysis I (4)

#### **Concentration (40-56 units)**

Students must choose either the general track or one of the applied concentrations which follow:

#### **General Track (41 units)**

##### **Lower-division requirement (5 units):**

1. Physics 221. General Physics I (5)

##### **Electives (36 units)**

1. Thirty-six units of mathematics electives selected from the following, with at least eight units chosen from 500-level courses. At least twelve units must be chosen from group A, and at least twelve units must be chosen from group B below.

##### **Group A (Applied Mathematics):**

- MATH 320. Mathematical Interest Theory (4)
- MATH 455. Fourier Analysis (4)
- MATH 470. Ordinary Differential Equations (4)
- MATH 474. Numerical Methods (4)
- MATH 557. Complex Variables (4)
- MATH 565. Mathematical Statistics (4)
- MATH 570. Partial Differential Equations (4)
- MATH 576. Introduction to Mathematical Models (4)

##### **Group B (Pure Mathematics):**

- MATH 411. Introduction to Mathematical Logic (4)
- MATH 480. Topics in History of Mathematics (4)
- MATH 510. Topics in Mathematics (4)
- MATH 529. Advanced Geometry (4)
- MATH 531. Advanced Linear Algebra (4)
- MATH 546. Abstract Algebra II (4)
- MATH 554. Analysis II (4)
- MATH 555. Introduction to Point-Set Topology (4)
- MATH 595D. Independent Study (4)

#### **Concentration in Biology (56-58 units)**

##### **Lower-division requirements (27 units)**

1. BIOL 200. Biology of the Cell (5)
2. BIOL 201. Biology of Organisms (5)
3. BIOL 202. Biology of Populations (5)
4. CHEM 215. General Chemistry I (6)
5. CHEM 216. General Chemistry II (6)

##### **Upper-division requirements (17 units)**

1. BIOL 300. Cell Physiology (5)
2. MATH 470. Ordinary Differential Equations (4)
3. MATH 565. Mathematical Statistics (4)
4. MATH 576. Introduction to Mathematical Models (4)

##### **Electives (12-14 units):**

1. A minimum of eight units chosen from:
  - BIOL 321. Evolution (4)
  - BIOL 421. Genetics (4)
  - BIOL 422. Genetics Laboratory (1)
  - BIOL 450. Ecology (5)
  - BIOL 522. Population Genetics (4)
  - BIOL 572. Virology (4)
  - BIOL 573. Immunology (5)

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## 2. Four units chosen from:

- MATH 320. Mathematical Interest Theory (4)
- MATH 411. Introduction to Mathematical Logic (4)
- MATH 455. Fourier Analysis (4)
- MATH 474. Numerical Methods (4)
- MATH 480. Topics in History of Mathematics (4)
- MATH 510. Topics in Mathematics (4)
- MATH 529. Advanced Geometry (4)
- MATH 531. Advanced Linear Algebra (4)
- MATH 546. Abstract Algebra II (4)
- MATH 554. Analysis II (4)
- MATH 555. Introduction to Point-Set Topology (4)
- MATH 557. Complex Variables (4)
- MATH 570. Partial Differential Equations (4)
- MATH 595D. Independent Study (4)

**Concentration in Computer Science (40 units)**

## Lower-division requirement (4 units)

- 1. CSCI 202. Computer Science II (4)

## Upper-division requirements (8 units):

- 1. CSCI 320. Programming Languages (4)
- 2. CSCI 330. Data Structures (4)

## Electives (28 units):

## 1. Twelve units chosen from:

- CSCI 420. Computer Graphics (4)
- CSCI 431. Algorithm Analysis (4)
- CSCI 500. Introduction to Formal Languages and Automata (4)
- CSCI 512. Introduction to Artificial Intelligence (4)
- CSCI 513. Advanced Artificial Intelligence (4)
- CSCI 515. Automated Reasoning (4)
- CSCI 520. Advanced Computer Graphics (4)
- CSCI 524. Supercomputing and Visualization (4)
- CSCI 535. Numerical Computation (4)
- CSCI 546. Introduction to Theory of Computation (4)
- CSCI 550. Advanced Bioinformatics I: Sequence Analysis (4)
- CSCI 551. Advanced Bioinformatics II: Numerical Modeling (4)
- CSCI 556. Introduction to Formal Methods, Models, and Languages (4)

## 2. Sixteen units of mathematics electives selected from the following with at least eight units chosen from 500-level courses:

- MATH 320. Mathematical Interest Theory (4)
- MATH 411. Introduction to Mathematical Logic (4)
- MATH 455. Fourier Analysis (4)
- MATH 470. Ordinary Differential Equations (4)
- MATH 474. Numerical Methods (4)
- MATH 480. Topics in History of Mathematics (4)
- MATH 510. Topics in Mathematics (4)
- MATH 529. Advanced Geometry (4)
- MATH 531. Advanced Linear Algebra (4)
- MATH 546. Abstract Algebra II (4)
- MATH 554. Analysis II (4)
- MATH 555. Introduction to Point-Set Topology (4)
- MATH 557. Complex Variables (4)
- MATH 565. Mathematical Statistics (4)
- MATH 570. Partial Differential Equations (4)
- MATH 576. Introduction to Mathematical Models (4)
- MATH 595D. Independent Study (4)

**Concentration in Economics (40 units)**

## Lower-division requirements (8 units):

- 1. ECON 200. Principles of Microeconomics (4)
- 2. ECON 202. Principles of Macroeconomics (4)

## Upper-division requirements (12 units):

- 1. MATH 320. Mathematical Interest Theory (4)
- 2. MATH 565. Mathematical Statistics (4)
- 3. MATH 576. Introduction to Mathematical Models (4)

## Electives (20 units):

## 1. Sixteen units chosen from:

- ECON 300. Intermediate Macroeconomics (4)
- ECON 302. Intermediate Microeconomics (4)
- ECON 360. Economics of the Environment (4)
- ECON 410. Money and Banking (4)
- ECON 430. International Economics (4)
- ECON 435. Multinational Corporations (4)
- ECON 475. Public Finance (4)
- ECON 480. Quantitative Methods in Economics (4)
- ECON 490. Introduction to Econometrics (4)

## 2. Four units chosen from:

- MATH 411. Introduction to Mathematical Logic (4)
- MATH 455. Fourier Analysis (4)
- MATH 470. Ordinary Differential Equations (4)
- MATH 474. Numerical Methods (4)
- MATH 480. Topics in History of Mathematics (4)
- MATH 510. Topics in Mathematics (4)
- MATH 529. Advanced Geometry (4)
- MATH 531. Advanced Linear Algebra (4)
- MATH 546. Abstract Algebra II (4)
- MATH 554. Analysis II (4)
- MATH 555. Introduction to Point-Set Topology (4)
- MATH 557. Complex Variables (4)
- MATH 570. Partial Differential Equations (4)
- MATH 595D. Independent Study (4)

**Concentration in Geographic Information Systems (48 units)**

## Lower-division requirements (14 units):

- 1. GEOG 103. Physical Geography (5)
- 2. GEOG 201. Map Interpretation (4)
- 3. GEOG 202. Introduction to Geographic Information Systems and Mapping (5)

## Upper-division requirements (14 units):

- 1. GEOG 308. Advanced Geographic Information Systems (5)
- 2. GEOG 402. Geographic Information Systems Applications (5)
- 3. MATH 470. Ordinary Differential Equations (4)

## Electives (20 units):

## 1. At least eight units to be chosen from:

- GEOG 306. Remote Sensing of Environment (4)
- GEOG 403. Advanced Map Design (5)
- GEOG 406. Digital Image Processing (4)
- GEOG 575. Internship in Geography (5)

## 2. Twelve units selected from the following with at least eight units chosen from 500-level courses:

- MATH 320. Mathematical Interest Theory (4)
- MATH 411. Introduction to Mathematical Logic (4)
- MATH 455. Fourier Analysis (4)
- MATH 474. Numerical Methods (4)
- MATH 480. Topics in History of Mathematics (4)
- MATH 510. Topics in Mathematics (4)
- MATH 529. Advanced Geometry (4)
- MATH 531. Advanced Linear Algebra (4)
- MATH 546. Abstract Algebra II (4)
- MATH 554. Analysis II (4)
- MATH 555. Introduction to Point-Set Topology (4)
- MATH 557. Complex Variables (4)
- MATH 565. Mathematical Statistics (4)
- MATH 570. Partial Differential Equations (4)



- MATH 576. Introduction to Mathematical Models (4)  
MATH 595D. Independent Study (4)

**Concentration in Physics (49 units)**

Lower-division requirements (21 units):

1. PHYS 221. General Physics I (5)
2. PHYS 222. General Physics II (5)
3. PHYS 223. General Physics III (5)
4. PHYS 224. General Physics IV (3)
5. PHYS 225. General Physics V (3)

Upper-division requirement (4 units):

1. PHYS 373. Mathematical Methods of Physics I (4)

Electives (24 units):

1. Twelve units chosen from:
  - PHYS 306. Classical Mechanics I (4)
  - PHYS 307. Classical Mechanics II (4)
  - PHYS 313. Electrodynamics I (4)
  - PHYS 314. Electrodynamics II (4)
  - PHYS 315. Introduction to Modern Optics (4)
  - PHYS 324. Statistical and Thermal Physics (4)
  - PHYS 370. Introduction to Astrophysics (4)
  - PHYS 421. Quantum Mechanics I (4)
  - PHYS 422. Quantum Mechanics II (4)
  - PHYS 430. Advanced Physics Laboratory (4)
  - PHYS 450. Introduction to Solid State Physics (4)
  - PHYS 461. Introduction to Nuclear Physics (4)
  - PHYS 463. Introduction to Elementary Particle Physics (4)
  - PHYS 473. Mathematical Methods of Physics II (4)
  - PHYS 480. Topics in Classical Physics (4)
  - PHYS 485. Topics in Contemporary Physics (2)
  - PHYS 573. Mathematical Methods of Physics III (4)
2. Twelve units of mathematics electives selected from the following with at least one four unit course chosen from 500-level courses:
  - MATH 320. Mathematical Interest Theory (4)
  - MATH 411. Introduction to Mathematical Logic (4)
  - MATH 455. Fourier Analysis (4)
  - MATH 470. Ordinary Differential Equations (4)
  - MATH 474. Numerical Methods (4)
  - MATH 480. Topics in History of Mathematics (4)
  - MATH 510. Topics in Mathematics (4)
  - MATH 529. Advanced Geometry (4)
  - MATH 531. Advanced Linear Algebra (4)
  - MATH 546. Abstract Algebra II (4)
  - MATH 554. Analysis II (4)
  - MATH 555. Introduction to Point-Set Topology (4)
  - MATH 557. Complex Variables (4)
  - MATH 565. Mathematical Statistics (4)
  - MATH 570. Partial Differential Equations (4)
  - MATH 576. Introduction to Mathematical Models (4)
  - MATH 595D. Independent Study (4)

**TEACHING CREDENTIAL PROGRAM**

In order to be recommended for the teaching credential students must complete the requirements of the B.A. in Mathematics, Teaching Track as well as certain prerequisites of the teacher education program. For information about the professional education component, admission to the teacher education program or specific requirements for the single subject waiver program see Page 157 or contact the Credentials Office, CE-102.

Current B.A. and B.S. students may still be recommended for the teaching credential provided they have completed their program by July 1, 2009, and have taken MATH 480 and MATH 529 as electives. Contact the Department of Mathematics for details.

**MINOR IN MATHEMATICS****Requirements (34 units)****Requirements for a minor in Mathematics:**

Lower-division requirements (22 units)

1. A minimum of two units chosen from:
  - CSCI 201. Computer Science I (4)
  - CSCI 240. FORTRAN Programming (4)
  - MATH 241. Problem Solving in Calculus (2)
2. MATH 211. Basic Concepts of Calculus (4)
3. MATH 212. Calculus II (4)
4. MATH 213. Calculus III (4)
5. MATH 251. Multivariable Calculus I (4)
6. MATH 252. Multivariable Calculus II (4)

Upper-division requirements (12 units)

1. MATH 331. Linear Algebra (4)
2. Four units chosen from:
  - MATH 345. Number Theory and Proof (4)
  - MATH 355. Analysis and Proof (4)
3. Four units chosen from upper-division elective course work in mathematics courses applicable to the major.

**DEPARTMENTAL HONORS**

The department faculty will determine whether a student is to be awarded departmental honors upon graduation. The criteria will be:

1. A grade point average of at least 3.5 in all mathematics courses taken at this university and counted toward fulfilling requirements of the mathematics major.
2. At least four units of MATH 595. Independent Study, completed with a grade of "A-" or better, and culminating in a presentation to the department.

**CERTIFICATE PROGRAMS**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed a) to impart specified professional/vocational/career competencies; or b) to produce mastery of the content of a sub-field of an academic major (discipline); or c) to provide exposure to the range of materials in a traditional or emerging interdisciplinary field. See Page 58 for additional certificate information.

**Certificate in Introductory Actuarial Science**

This program is designed to prepare students for the preliminary exams given by the Society of Actuaries. Completion of those exams is normally considered the prerequisite for internships and entry-level positions in the field of actuarial science. For more information contact the Department of Mathematics.

**Certificate Requirements (50 units)**

Lower-division requirements (30 units)

1. ECON 200. Principles of Microeconomics (4)
2. ECON 202. Principles of Macroeconomics (4)
3. MATH 211. Basic Concepts of Calculus (4)
4. MATH 212. Calculus II (4)
5. MATH 213. Calculus III (4)
6. MATH 241. Problem Solving in Calculus (2)
7. MATH 251. Multivariable Calculus I (4)
8. MATH 252. Multivariable Calculus II (4)

Upper-division requirements (20 units)

1. ECON 300. Intermediate Macroeconomics (4)
2. ECON 302. Intermediate Microeconomics (4)
3. MATH 320. Mathematical Interest Theory (4)

4. MATH 372. Combinatorics (4)
5. MATH 465. Probability Theory (4)

### Certificate in Teaching Basic Mathematics

#### Admission to the Program

1. A valid California teaching credential in a subject other than mathematics.

#### Certificate Requirements (32 units)

Lower-division requirements (20 units)

1. MATH 110. College Algebra (4)
2. MATH 115. The Ideas of Mathematics (4)
3. MATH 120. Pre-Calculus Mathematics (4)
4. MATH 229. Geometry in Two and Three Dimensions (4)
5. Four units chosen from:
  - MATH 192. Methods of Calculus (4)
  - MATH 211. Basic Concepts of Calculus (4)

Upper-division requirements (12 units)

1. MATH 301A. Fundamental Concepts of Mathematics for Educators A: Fundamentals of Arithmetic and Geometry (4)
2. MATH 302. Problem Solving in Mathematics (4)
3. MATH 499. Mathematics in the Secondary Classroom (4)

**Note:** With departmental permission mathematics courses with a calculus prerequisite may be substituted for any of the following:

- MATH 110. College Algebra
- MATH 120. Pre-Calculus Mathematics

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## COURSE OFFERINGS IN MATHEMATICS (MATH)

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### 70. Fundamental Arithmetic

Fundamental topics in arithmetic, including a preview of algebra. Units awarded for MATH 70 are not applicable to a baccalaureate degree. Graded A, B, C/no credit. (4 units)

### 75. Basic Mathematics

A course designed for students who score at or in the lowest quartile on the Entry Level Mathematics examination. Units awarded for MATH 75 are not applicable to a baccalaureate degree. Graded credit/no credit.

- A. Arithmetic of integers, rational numbers and decimals, including the order of operations, percentages, fractions, ratio and proportion, linear equations. (4 units)
- B. Linear equations and their graphs, systems of linear equations, polynomials, factoring, integer exponents and factoring. (4 units)
- C. Integer exponents and factoring, systems of linear equations, solving rational equations, quadratic equations, the Pythagorean theorem, the distance formula. (4 units)

### 79. Algebra Workshop

A laboratory based algebra workshop; to be taken with MATH 80 by students who would otherwise not qualify for admission to that course. Units awarded for MATH 79 are not applicable to a baccalaureate degree. Graded credit/no credit. Prerequisite: consent of instructor. (1 unit)

### 80. Fundamental Algebra (FWS)

Arithmetic operations, linear and quadratic equations, applications and introduction to graphing. Units awarded for MATH 80 are not applicable to a baccalaureate degree. Graded A, B, C/no credit. (4 units)

### 90. Intermediate Algebra (FWS)

Linear and quadratic equations and inequalities, algebraic fractions and rational equations, exponents, radicals and radical equations, applications to word problems. Units awarded for MATH 90 are not applicable to a baccalaureate degree. Graded A, B, C/no credit. Prerequisite: passage of the Entry Level Mathematics examination or a satisfactory score on the appropriate placement test. (4 units)

#### Lower Division

### 110. College Algebra (FWS)

Functional notation, graphs and inverses of linear, polynomial, and rational functions, rational exponents, arithmetic and geometric progressions, logarithmic and exponential functions, systems of linear equations. Graded A,B,C/no credit. Prerequisite: passing score on the Entry Level Mathematics examination or passage of MATH 90. (GE=B1) (MATH 110=CAN MATH 10) (4 units)

### 115. The Ideas of Mathematics (FWS)

Sets and their applications to topics in discrete mathematics that will include enumeration techniques and finite probability spaces. Graded A, B, C/no credit. Prerequisite: passing score on the Entry Level Mathematics examination or passage of MATH 90. (GE=B1) (MATH 115=CAN MATH 2) (4 units)

### 120. Pre-Calculus Mathematics (FWS)

Trigonometric functions, trigonometric identities, right angle trigonometry, complex numbers, conic sections, binomial theorem, induction. Graded A, B, C/no credit. Prerequisite: satisfactory score on the Entry Level Mathematics examination or passage of MATH 110. (GE=B1) (MATH 120=CAN MATH 16) (4 units)

### 180. Critical Thinking Through Applications of Mathematical Logic (FWS)

Analysis of logical implication, logical equivalence and valid argument using symbolic logic. Applications drawn from a wide variety of practical examples. Emphasis on problem solving techniques. (GE=A4) (4 units)

### 192. Methods of Calculus (FWS)

A short course in calculus with emphasis on applications. Prerequisite: satisfactory score on the Entry Level Mathematics examination, or passage of MATH 110. This course does not substitute for any course in the calculus sequence MATH 211, 212, 213, 251, 252 required for majors in chemistry, computer science, mathematics or physics. (GE=B1) (4 units)

### 199. Technology in Math Education through Problem Solving (WS)

Exploration of central ideas in secondary school mathematics through problem solving using technology. Introduction to the use of three types of software: dynamic geometry, spreadsheet, and computer algebra systems. Materials fee required. Prerequisite: MATH 120 or equivalent (3 units)

### 211. Basic Concepts of Calculus (FWS)

An introduction to limits and continuity, differentiation of functions in one variable (including trigonometric functions) and antiderivatives with applications. Prerequisite: satisfactory score on the Entry Level Mathematics examination or passage of MATH 120. (GE=B1) (MATH 211+212+213=CAN MATH SEQ B) (4 units)

### 212. Calculus II (FWS)

Techniques and applications of integration, differentiation and integration of transcendental functions. Prerequisite: MATH 211 (or 200) with a grade of "C" or better. (MATH 211+212+213=CAN MATH SEQ B) (4 units)

**213. Calculus III (FWS)**

Sequences and series, numerical techniques, polar coordinates, parametric equations. Prerequisite: MATH 212 (or 201) with a grade of "C" or better. (MATH 211+212+213=CAN MATH SEQ B) (4 units)

**229. Geometry in Two and Three Dimensions (WS)**

Axiomatic foundations of Euclidean geometry and their relation to absolute, affine, and ordered geometry. Isometry and similarity in the Euclidean plane and three-space. Inversive transformations and construction of the real projective plane. Formerly MATH 129. Prerequisites: completion of the general education requirement in mathematics. (4 units)

**241. Problem Solving in Calculus (FWS)**

An approach to solving calculus-based problems incorporating a computer algebra system. Projects will include interpolation, numerical methods, differential equations and graphical approaches. One hour lecture and three hours laboratory. Prerequisites: some programming experience and MATH 212. Recommended: MATH 213. (2 units)

**251. Multivariable Calculus I (FWS)**

Vectors and vector geometry in two and three dimensions. Elementary linear algebra. Multivariable functions. Parametrization of space curves. Prerequisite: MATH 212 with a grade of "C" or better. (4 units)

**252. Multivariable Calculus II (FWS)**

Differentiation and integration of vector functions with applications, multiple integration, line and surface integrals. Partial and directional derivatives. Theorems of Green and Stokes. Prerequisites: MATH 251, and 213 with a grade of "C" or better. (4 units)

**262. Applied Statistics (FWS)**

Basic concepts of probability and statistics. Important probability models such as the binomial, Poisson and normal. Statistical procedures, particularly in relation to estimation, hypothesis testing and modeling. Computer simulations and computations. May not be taken for credit by students who have received credit for MATH 305. Prerequisite: MATH 120. Prerequisite or corequisite: MATH 211. (4 units)

**270. Elementary Differential Equations (FS)**

First order equations, second order linear equations, linear equations with constant coefficients, variation of parameters, applications. Prerequisite: MATH 252. (MATH 270=CAN MATH 24) (4 units)

**272. Discrete Mathematics (FWS)**

Boolean algebra. Computer arithmetic including hexadecimal, octal and binary numeration. Relations and functions. Vectors and matrices. Introduction to graph theory. Prerequisite: completion of the general education requirement in mathematics. (MATH 272=CAN CSCI 26) (4 units)

**Upper Division****301. Fundamental Concepts of Mathematics for Educators (FWS)**

A mathematics sequence for future teachers, containing fundamental concepts of number sense, algebra, and geometry. May not be counted toward fulfilling requirements in the mathematics major.

- A. Fundamental Concepts of Arithmetic and Geometry. Mathematical reasoning behind the structure and arithmetic of real numbers. Connections between numbers and geometry. Introduction to functions and graphs as a natural extension of arithmetic. May not be taken for credit by students who have completed Math

301. Prerequisites: completion of Math 115 and the general education requirements in written communication, oral communication and critical thinking. Graded ABC/no credit. (4 units)

- B. Transition from Concrete to Abstract in Algebra and Geometry. Algebra in context, algebraic techniques, proportion. Linear functions and their graphs. Angle, shape, size, polygons, and circles. Congruence and similarity. Graded ABC/no credit. Prerequisites: completion of MATH 301A (or 301), with a course grade of at least "C." (4 units)
- C. Further Developments in Algebra and Geometry. The arithmetic and graphs of polynomial and rational functions. Scientific notation, logarithmic and exponential functions. Polygons, tessellations, and transformations. Polyhedra, spheres, cylinders, cones. Transformations in graphs. Graded ABC/no credit. Prerequisite: completion of MATH 301B with a course grade of at least "C." (4 units)

**302. Problem Solving in Mathematics (FWS)**

Use of heuristic techniques, such as analogy and induction, in problem solving. Elementary and recreational problems selected from algebra, logic, number theory, combinatorics and probability. May not be counted toward fulfilling requirements in the mathematics major. Prerequisites: completion of the general education requirements in mathematics, written communication, oral communication and critical thinking. (4 units)

**303. Geometry in Two and Three Dimensions for Teachers**

Geometric figures, constructions and transformations in two and three dimensions. Development of axiomatic geometry and subsequent study of axiomatic systems from a historical perspective; students create proofs in solving geometry problems. Algebraic approach contrasted with Euclidean. Includes hands-on activities, emphasizes connection to disciplines such as art and geography. Teaching methods, integrated throughout, stress transition from concrete to abstract, use of geometric construction tools including computers where appropriate, visualization of transformations and their application in problem solving as well as assessment of student work. (6 units)

**304. Algebra for Teachers**

Polynomials and rational functions, analogy between arithmetic and algebra. Linear, quadratic, and rational equations and inequalities and their graphs; rational exponents, geometric series, exponential functions and their graphs. Algebra presented more as a way of thinking than as a collection of algorithms. Emphasis on solution of verbally stated problems. Teaching methods, integrated throughout, focus on transition from concrete to abstract, pattern recognition and discovery, appropriate use of calculators and computers, and assessment of student work. Prerequisite: B.A. or B.S. degree from an accredited institution. (6 units)

**305. Statistics: Hypothesis Testing and Estimation (FWS)**

After a brief introduction to descriptive statistics, course will emphasize hypothesis testing and estimation, using packaged computer programs. May not be taken for credit by students who have received credit for MATH 262. Prerequisite: completion of the general education requirement in mathematics or equivalent preparation. (4 units)

**306. Mathematics, the Language of Science**

Introduction to basic calculus with emphasis on its role in the development of the life and physical sciences. Applications include rates of change, growth and velocity. Prerequisites: MATH 120 and at least one four unit college level course in both physics and biology. (4 units)



**307. Mathematics in Science**

Differential equations applied to scientific questions of motion, growth and decay, and populations, including an overview of statistics and data analysis. Prerequisite: a minimum of one quarter of calculus (MATH 192, 211, 306 or equivalent). (4 units)

**308. Problem Solving Through Theory and Practice (FWS)**

Heuristic techniques in solving contextual problems from algebra, number theory, geometry, logic, probability and statistics. May not be counted toward fulfilling requirements in the mathematics major. May not be taken for credit by students who have completed MATH 302. Two hours seminar. Prerequisite: MATH 301C with a grade of at least "C" or consent of instructor. (2 units)

**320. Mathematical Interest Theory (W)**

Development of the mathematical theory of interest in both finite and continuous time, including the accumulation function and special cases of simple and compound interest, valuation of the discrete and continuous streams of payments, and nominal and effective interest and discount rates. Application of the theory, with computer applications, to actuarial science, including amortization of lump sums, fixed income securities, and depreciation. Three hours lecture and two hours laboratory. Prerequisites: MATH 213 and 241. (4 units)

**329. Transformation Geometry (FWS)**

Development of Euclidean plane geometry in terms of congruence and similarity transformations. Classification of affine transformations with applications to classical theorems. Introduction to inversive transformations and related constructions. Prerequisites: MATH 251 and high school geometry or equivalent. (4 units)

**331. Linear Algebra (FWS)**

Vector spaces over a field, linear dependence, dimension; matrices and systems of linear equations; the theory of linear transformations; characteristic values and vectors; applications. Prerequisite: MATH 251 or consent of instructor. (4 units)

**345. Number Theory and Proof (FWS)**

Introduction to ideas and techniques of proof and historical topics in classical number theory. Theory of divisibility, primes and linear congruences. Theorems of Fermat, Euler and Wilson. Primitive roots and indices. Number theoretic functions. Prerequisite: MATH 213. (4 units)

**355. Analysis and Proof (FWS)**

Introduction to ideas and techniques of proof with an emphasis on analysis. Topics chosen from: logic, set theory, functions, cardinality and analysis. Prerequisite: MATH 213. (4 units)

**372. Combinatorics (FWS)**

Permutations and combinations, recurrence relations with applications and topics in graph theory. Prerequisite: MATH 213; or MATH 211, 262 and 272. (4 units)

**395. Directed Study**

Reading and library research in mathematics conducted under the direction of a faculty member. A total of four units may apply toward the major. Prerequisites: consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-4 units)

**399. Service Learning Experience in Mathematics (FW)**

Supervised learning experience in the secondary mathematics classroom. Observation and participation that provides future teachers with first-hand experience and the opportunity to link their undergraduate mathematics course work with classroom experience. Includes weekly meetings on campus (one hour per week) and observation in a secondary classroom (20 hours). Graded A, B, C/no credit. Prerequisite: MATH 329. (2 units)

**411. Introduction to Mathematical Logic**

Propositional and quantificational logic, completeness and consistency results, formal systems, Peano arithmetic, recursive functions, Godel's incompleteness theorem. Prerequisite: MATH 345. (4 units)

**455. Fourier Analysis**

Fourier series and the Fourier transform. Convergence properties and orthogonality. Applications to differential equations. Prerequisites: MATH 270 and 355. (4 units)

**465. Probability Theory (FWS)**

Probability spaces, independence, conditional probability, densities, mass and distribution functions, moments, joint and marginal distributions, moment generating functions, Chebychev's inequality, law of large numbers and other topics. Prerequisites: MATH 252 and 372. (4 units)

**470. Ordinary Differential Equations (W)**

Topics from among: first order equations, linear equations, systems of equations, iterative methods, series solutions, Laplace transformations, applications. Prerequisites: MATH 270 and 331. (4 units)

**474. Numerical Methods**

Introduction to numerical methods for finding solutions of non-linear equations, systems of linear equations and ordinary differential equations. Discussion of errors and numerical instabilities; numerical differentiation; numerical integration. Prerequisites: CSCI 201 and MATH 331. (4 units)

**480. Topics in History of Mathematics (FWS)**

Exploration of the historical and topical development of interconnected areas of mathematics, such as algebra, geometry and analysis. Discussion of the influence of culture and society on the development of mathematical ideas and discovery will be included. Prerequisites: MATH 252, 329, 345 and 355. (4 units)

**499. Mathematics in the Secondary Classroom (WS)**

Instruction in the methods and materials for teaching mathematics in the secondary classroom, with emphasis on algebra and geometry. Each student will complete and present a project relating advanced mathematics to the high school curriculum that implements ideas and strategies presented in this course. May not be counted toward fulfilling requirements of the B.A. (Non-Teaching Track), B.S., M.A. or M.A. in Teaching, Mathematics. Prerequisites: MATH 329, 331 and 399. (4 units)

**510. Topics in Mathematics**

Study of selected areas of advanced mathematics. May be repeated for credit with consent of instructor as topics change. Prerequisite: senior or graduate standing. (4 units)

**529. Advanced Geometry (FWS)**

Topics in affine and projective geometry with applications to Euclidean 2 and 3 space and to modern algebra. Prerequisites: MATH 329, 331 and 345. (4 units)



**531. Advanced Linear Algebra**

Inner product spaces; duality of vector spaces; canonical forms; spectral theory; quadratic forms. Formerly a topic under MATH 510. Prerequisite: MATH 331. (4 units)

**545. Abstract Algebra I (FWS)**

An introduction to algebraic structures, including groups, rings and fields. Prerequisites: MATH 331, 345 and 355. (4 units)

**546. Abstract Algebra II (S)**

Continuation of MATH 545. Prerequisite: MATH 545. (4 units)

**553. Analysis I (FWS)**

Continuous and differentiable functions, infinite series. Uniform convergence, computation with series, functions represented by integrals, theory of integration. Prerequisites: MATH 252 and 355. (4 units)

**554. Analysis II (S)**

Continuation of MATH 553. Prerequisite: MATH 553. (4 units)

**555. Introduction to Point-Set Topology**

Topics to include topological and metric spaces, compactness, product spaces, connectedness, separation properties. Prerequisite: MATH 355. (4 units)

**557. Complex Variables**

Analytic and harmonic functions, power series, Cauchy's Theorem and Cauchy's Formula. Prerequisites: MATH 252 and 355. (4 units)

**565. Mathematical Statistics**

Likelihood ratio, estimators, distributions of estimators, theory of hypothesis testing, linear statistical models. Prerequisite: MATH 465. (4 units)

**570. Partial Differential Equations**

Classification of partial differential equations; heat equation, Laplace's equation, boundary value-problems; separation of variables. Applications of Fourier and Laplace transforms, numerical methods. Prerequisite: MATH 270 and 355. MATH 241 recommended. (4 units)

**576. Introduction to Mathematical Models**

Topics from linear and probabilistic models, computer simulation, difference and differential equation models. Prerequisites: CSCI 201, MATH 331 and 465. (4 units)

**595. Independent Study**

An independent study course for senior mathematics majors. A total of four units may apply toward the major. Prerequisites: MATH 331 and 553, a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted in advance of the quarter in which the course is to be taken. (1-4 units)

**599. Senior Seminar for Future Mathematics Educators (FS)**

Summative assessment of subject matter competence for prospective mathematics teachers. Each student will complete and present a project relating advanced mathematics to the high school curriculum, and complete and submit a portfolio of their undergraduate work in mathematics for assessment. Meets four hours per week during the first week and the last four weeks of the quarter. Graded A,B,C/no credit. Prerequisites: MATH 199, 480 and 499. (2 units)

# MILITARY SCIENCE PROGRAM (ARMY ROTC)

## Military Science Office

Temporary Annex, Room 104  
(909) 537-5533 [www.csusarmyrotc.com](http://www.csusarmyrotc.com)  
Military Science Program

**FACULTY:** LTC H. Schleuning, SFC M. Zarate, LTC R. Kirkland

The military science program is designed to provide an on-campus program for qualified students in all academic majors who desire to serve as an Army officer on active duty or in a local Army Reserve or Guard unit. While students may participate in either undergraduate or graduate studies, the program requires at least two years to complete.

Students who have completed at least basic training in any of the armed services may be eligible to enter the advanced course directly. Other students must complete three to six of the courses in the basic course of study or complete a six-week summer camp prior to entering the advanced course.

ROTC students are required to participate in off-campus leadership laboratories one weekend each quarter.

Scholarships are available on a competitive basis. All ROTC students receive \$450-500 per month during the final two years of the program.

## MILITARY SCIENCE PROGRAM

### Program Requirements

#### Option I (Four Year Program)

Program Requirements (48 units)

Basic Course of Study (12 units)

1. MILS 151. Basic Military Skills I (2)
2. MILS 152. Basic Military Skills II (2)
3. MILS 153. Basic Military Skills III (2)
4. MILS 251. Leadership and Management I (2)
5. MILS 252. Leadership and Management II (2)
6. MILS 253. Leadership and Management III (2)

Advanced Course of Study (12 units)

1. Twelve units chosen from:
  - MILS 351. Small Unit Operations I (2)
  - MILS 352. Small Unit Operations II (2)
  - MILS 353. Advanced Military Leadership and Management (2)
  - MILS 451. Military Law (2)
  - MILS 452. Contemporary Military Policy (2)
  - MILS 453. Senior Leadership Seminar (2)
  - MILS 595. Independent Study (2) may be repeated for a total of (4)

Leadership Laboratory (12 units)

Students must be enrolled in the following each quarter they are enrolled in the ROTC Program:

1. MILS 100. Leadership Laboratory (1) for a total of (12)

**Note:** In addition, a six-week advanced camp is required between the final two years of study.

In addition to the ROTC curriculum, cadets must complete one of each of the following type courses in order to ensure they have an understanding of skills, values, and knowledge beyond the military skills taught by the military science staff and the ROTC curriculum. These classes do not substitute for any military science classes and are in addition to the required classes for ROTC cadets.

Additional Requirements (12 units)

1. Computer Literacy  
Four units chosen from one of the following four options:
  - A. CSCI 129. Science, Computing and Society (2) and CSCI 123. Using Computer Software (2)
  - B. CSCI 129. Science, Computing and Society (2) and CSCI 124. Exploring the Information Superhighway (2)
  - C. CSCI 298. Application Software Topics (2) for a total of (4) as topics change
  - D. INFO 102. Introduction to Information Technology (2) and INFO 103. Using Information Technology Applications (2)
2. Written Communications Skills  
Four units chosen from:
  - EDUC 306. Expository Writing for Education (4)
  - ENG 306. Expository Writing (4)
  - HUM 306. Expository Writing for the Humanities (4)
  - MGMT 306. Expository Writing for Administration (4)
  - NSCI 306. Expository Writing for the Natural Sciences (4)
  - SSCI 306. Expository Writing for the Social Sciences (4)
3. Military History  
HIST 603. Seminar in Modern Military History (4)  
Other classes may be substituted for those listed in each category upon approval of the military science staff.  
**Note:** Some of these requirements are fulfilled by general education classes.

#### Option II (Two Year Program)

Program Requirements (32 units)

Basic Course Equivalent (2 units)

1. MILS 260. ROTC Basic Camp (2)

Advanced Course of Study (12 units)

1. Twelve units chosen from:
  - MILS 351. Small Unit Operations I (2)
  - MILS 352. Small Unit Operations II (2)
  - MILS 353. Advanced Military Leadership and Management (2)
  - MILS 451. Military Law (2)
  - MILS 452. Contemporary Military Policy (2)
  - MILS 453. Senior Leadership Seminar (2)

Leadership Laboratory (6 units)

Students must be enrolled in the following each quarter they are enrolled in the ROTC program.

1. MILS 100. Leadership Laboratory (1) for a total of (6)

**Note:** In addition, a six week advanced camp is required between the final two years of study.

In addition to the ROTC Curriculum, cadets must complete one of each of the following type courses in order to ensure they have an understanding of skills, values, and knowledge beyond the military skills taught by the military science staff and the ROTC curriculum. These classes do not substitute for any military science classes and are in addition to the required classes for ROTC cadets.

Additional Requirements (12 units)

1. Computer Literacy  
Four units chosen from one of the following four options:
  - A. CSCI 129. Science, Computing and Society (2) and CSCI 123. Using Computer Software (2)
  - B. CSCI 129. Science, Computing and Society (2) and CSCI 124. Exploring the Information Superhighway (2)

- C. CSCI 298. Application Software Topics (2) for a total of (4) as topics change
- D. INFO 102. Introduction to Information Technology (2)
- INFO 103. Using Information Technology Applications (2)
- 2. Written Communications Skills  
Four units chosen from:
  - EDUC 306. Expository Writing for Education (4)
  - ENG 306. Expository Writing (4)
  - HUM 306. Expository Writing for the Humanities (4)
  - MGMT 306. Expository Writing for Administration (4)
  - NSCI 306. Expository Writing for the Natural Sciences (4)
  - SSCI 306. Expository Writing for the Social Sciences (4)
- 3. Military History  
HIST 603. Seminar in Modern Military History (4)  
Other classes may be substituted for those listed in each category upon approval of the military science staff.  
**Note:** Some of these requirements are fulfilled by general education classes.

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## COURSE OFFERINGS IN MILITARY SCIENCE (MILS)

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### Lower Division

#### 100. Leadership Laboratory

Practicum in those skills taught in the classroom during other military science classes in the quarter. To include Small Unit Operations, such as patrolling, air mobile operations, rappelling and weapons qualification. Some training is conducted on weekends. This course is only open to enrolled Army ROTC cadets. The course must be taken each quarter the student is enrolled in the Military Science program. (1 unit)

#### 151. Basic Military Skills I

Introduction to the role of the officer, the noncommissioned officer, and organization of the total Army. (2 units)

#### 152. Basic Military Skills II

A continuation of basic military skills. Prerequisite: MILS 151 or consent of instructor. (2 units)

#### 153. Basic Military Skills III

A continuation of basic military skills. Prerequisites: MILS 151 and 152 or consent of instructor. (2 units)

#### 251. Leadership and Management I

Introduction to leadership and management which develops technical skills that must be learned in order to perform as a leader. Students master technical aspects that are specific to the military profession. Prerequisites: MILS 151, 152, and 153 or consent of instructor. (2 units)

#### 252. Leadership and Management II

Continuation of leadership and management skills. Prerequisite: MILS 251 or consent of instructor. (2 units)

#### 253. Leadership and Management III

Continuation of leadership and management skills. Prerequisites: MILS 251 and 252 or consent of instructor. (2 units)

### 260. ROTC Basic Camp

ROTC Basic Camp is a six week course at FT Knox, KY. The basic camp offers students with no prior military training, or ROTC classes, the chance to enter the ROTC advanced program, if the student has two or more years of undergraduate or graduate study remaining. It is comparable to the first two years of the ROTC program. Prerequisite: consent of Military Science Department advisor. (2 units)

### Upper Division

#### 351. Small Unit Operations I

Current tactical doctrine as applied to small unit operations. Prerequisite: consent of instructor. (2 units)

#### 352. Small Unit Operations II

Continuation of current tactical doctrine as applied to small unit operations, with special attention to the leader's role. Prerequisite: MILS 351. (2 units)

#### 353. Advanced Military Leadership and Management

Leadership skills required of an ROTC cadet at advanced camp and as a junior officer in the armed forces. Prerequisite: MILS 352. (2 units)

#### 451. Military Law

Military justice system, including a history of military law, philosophy and structure of the military justice system, courts-martial and alternatives to courts-martial. Prerequisite: consent of instructor. (2 units)

#### 452. Contemporary Military Policy

Contemporary military policy and related subjects of topical military interest, including personal ethics, relevant to the training of junior-level officers. Prerequisite: consent of instructor. (2 units)

#### 453. Senior Leadership Seminar

Leadership and management problems encountered in a company-sized unit, both in garrison and in the field, with emphasis on role of the junior officer. Prerequisite: consent of instructor. (2 units)

#### 595. Independent Study

A directed reading and research course in contemporary military issues oriented towards a student's transition from cadet to commissioned officer. May be repeated twice for credit. Prerequisites: completion of all advanced military science courses and consent of instructor. (2 units)

# MUSIC

*Accredited by the National Association of Schools of Music (NASM)*

## Department of Music

Performing Arts Building, Room 111  
(909) 537-5859

### Bachelor of Arts

Music  
with emphases in:  
Music Education  
Performance/Composition  
General Music Studies  
Music Technology  
Musical Theatre  
Ethnomusicology  
Music History

### Teaching Credential Program

Music

### Minor

Jazz Studies  
Music  
Recording Arts

**FACULTY:** Jeffrey Boeckman, Edward Bostley (Emeritus), Andrew Crane, Loren Filbeck (Emeritus), Stacey Fraser, Todd Johnson (Chair), Robert Knop, Larry McFatter, Jerrold Pritchard (Emeritus), James Radomski

The contemporary musician has a potential access to more kinds of music than ever before in history. The music curriculum—with courses in electronic music, performance, world music, historical studies, music education and integrated theory—reflects that diversity in that it offers programs for the student who wishes to enter the teaching profession, become a professional musician, pursue an advanced degree, or simply enrich his or her education.

Placement in the B.A. in Music is based on: 1) a theory placement examination (proficiency in music fundamentals equal to that of MUS 100 and 101), 2) a piano proficiency audition, and 3) an applied music audition (performance proficiency equal to collegiate applied music at the 140-145 level).

Applied instruction is available only to declared music majors. Students entering the Composition Emphasis will be required to complete one year of applied vocal or instrumental music instruction (MUS 140-145) prior to acceptance into applied composition instruction (MUS 246). Students entering the Music Technology Emphasis will be required to complete two years of applied vocal or instrumental music instruction. (MUS 140-145 and MUS 240-245) prior to acceptance into applied technology instruction (MUS 348).

Students whose performance competencies are deemed deficient by the music faculty will be required to enroll in preparatory applied music instruction (at the 80-85 level). Students will be permitted to enroll in preparatory applied music instruction for a total of three units. Units awarded for preparatory applied music instruction are not applicable to the music program nor a baccalaureate degree. These courses are graded credit/no credit.

Student may enroll in a maximum of six quarter units at any one collegiate level of applied instruction (MUS 140-145, 240-246, 340-348, or 440-448). After six quarters at one level, students unable to satisfy completion requirements for that level will be counseled to select a major in a different discipline and will be denied enrollment in any higher level of applied instruction.

Music majors will be required to present a public senior recital or project. Students accepted into the Performance/Composition

Emphasis will be required to present a junior recital or project. The presentation of a recital or project must be approved by the faculty at least 10 weeks prior to the proposed presentation date. At that time a list of probable repertoire or outline of the project must be submitted. Four weeks prior to the public performance, the student will present the proposed recital or project for faculty approval.

All students enrolled as full-time music majors are required to participate each quarter until graduation in a major performing ensemble most appropriate to a student's applied emphasis.

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## B.A. IN MUSIC

### Requirements (96 units)

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### Total units required for graduation: 180

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### Requirements for the B.A. in Music:

#### Music Theory (24 units)

1. MUS 120. Theory I (3)
2. MUS 121. Theory I Laboratory (1)
3. MUS 122. Theory II (3)
4. MUS 123. Theory II Laboratory (1)
5. MUS 320. Theory III (3)
6. MUS 321. Theory III Laboratory (1)
7. MUS 322. Theory IV (3)
8. MUS 323. Theory IV Laboratory (1)
9. MUS 324. Theory V (3)
10. MUS 325. Theory V Laboratory (1)
11. MUS 542. Studies in Musical Organization (4)

#### Music History (16 units)

1. MUS 304. History of Music I (4)
2. MUS 305. History of Music II (4)
3. MUS 306. History of Music III (4)
4. MUS 350. Music of World Cultures (4)

#### Conducting (2 units)

1. MUS 210. Conducting (2)

#### Additional Requirements

1. Piano proficiency must be demonstrated by completing one of the following:
  - A. MUS 222. Class Piano III (with a grade of "B" or better) (1)
  - B. Successful completion of credit by examination administered by the department.
2. Nine units chosen from the student's area of study:  
MUS 140-145 (100-level Applied Study) (3)  
MUS 240-246 (200-level Applied Study) (3)  
MUS 340-348 (300-level Applied Study) (3)
3. Twelve units chosen from:  
MUS 380. Chamber Orchestra (1)  
MUS 381. Symphonic Band (1)  
MUS 385. Concert Choir (1)  
MUS 386. Chamber Singers (1)  
Participation in one of the major performance organizations most appropriate to the student's applied emphasis is required each quarter in residence with a maximum of twelve units being applied to the major.
4. Concert attendance:  
Six quarters of MUS 998. Concert Attendance; at least eight Music Department concerts, recitals and related programs must be attended per quarter.
5. One unit chosen from:  
MUS 598. Senior Project (1)  
MUS 599. Senior Recital (1)  
**Note:** If student chooses MUS 599 to fulfill the core requirement, MUS 440 level must be reached.
6. MUS 990. Music Comprehensive Assessment (0)



Emphases (31 units)

Thirty one units chosen from one of the following emphases:

**Music Education Emphasis (31 units)**

1. MUS 201A. Class Strings I (1)
2. MUS 201B. Class Strings II (1)
3. MUS 202A. Class Woodwinds I (1)
4. MUS 202B. Class Woodwinds II (1)
5. MUS 203A. Class Brass I (1)
6. MUS 203B. Class Brass II (1)
7. MUS 204A. Class Percussion I (1)
8. MUS 204B. Class Percussion II (1)
9. One unit chosen from:
  - MUS 206. Class Voice (1)
  - MUS 207. Diction for Singers (1) (for voice emphasis students)
10. MUS 208. Vocal Music Literature (1)
11. MUS 209. Instrumental Music Literature (1)
12. MUS 301. Choral Conducting (2)
13. MUS 303. Instrumental Conducting (2)
14. MUS 382. Chamber Music (1) for a total of (2)
15. MUS 406. Orchestration (2)
16. MUS 408. Arranging (2)
17. MUS 410. Music in the Elementary Schools (4)
18. MUS 411. Teaching Music in Secondary Schools (4)
19. MUS 535. Computer Studies for Music Teachers (2)

**Performance/Composition Emphasis (31 units)**

1. One unit chosen from:
  - MUS 208. Vocal Music Literature (1)
  - MUS 209. Instrumental Music Literature (1)
2. Four units chosen from:
  - MUS 266. Introduction to Computer and Electronic Music (4)
  - MUS 267. Introduction to Studio Recording Techniques (4)
3. Two units chosen from:
  - MUS 301. Choral Conducting (2)
  - MUS 303. Instrumental Conducting (2)
4. MUS 406. Orchestration (2)
5. MUS 408. Arranging (2)
6. Four units chosen from:
  - MUS 307. Music of the 20th and 21st Centuries (4)
  - MUS 400. Studies in Composers (4)
  - MUS 402. Studies in Genres (4)
  - MUS 426. Studies in Music History (4)
7. Applied Study
  - Three units chosen from one of the following:
    - MUS 440. Upper-Division Voice II (1) for a total of (3)
    - MUS 441. Upper-Division Keyboard Instrument II (1) for a total of (3)
    - MUS 442. Upper-Division String Instrument II (1) for a total of (3)
    - MUS 443. Upper-Division Wind Instrument II (1) for a total of (3)
    - MUS 444. Upper-Division Brass Instrument II (1) for a total of (3)
    - MUS 445. Upper-Division Percussion Instrument II (1) for a total of (3)
    - MUS 446. Upper-Division Composition II (1) for a total of (3)
    - MUS 448. Applied Technology II (1) for a total of (3)
8. One unit chosen from:
  - MUS 498. Junior Project (1)
  - MUS 499. Junior Recital (1)

9. Music Electives (12 units)

Twelve units of music courses related to the student's area of study (composition, instrumental, vocal, technology), subject to approval of advisor.

**General Music Studies Emphasis (31 units)**

1. MUS 266. Introduction to Computer and Electronic Music (4)
2. Four units chosen from:
  - MUS 351. Latin American Music (4)
  - MUS 352. African American Music (4)
  - MUS 360. Music in the United States (4)
3. Four units chosen from:
  - MUS 307. Music of the 20th and 21st Centuries (4)
  - MUS 400. Studies in Composers (4)
  - MUS 402. Studies in Genres (4)
  - MUS 426. Studies in Music History (4)
4. MUS 528. Special Projects (2)
5. Music Electives (9 units)
  - Nine units of music courses, subject to approval of advisor.
6. Electives (8 units)
  - Eight units chosen from courses offered in the College of Arts and Letters which may include music courses, subject to approval of advisor.

**Music Technology Emphasis (31 units)**

1. MUS 266. Introduction to Computer and Electronic Music (4)
2. MUS 267. Introduction to Studio Recording Techniques (4)
3. MUS 416. Advanced Computer and Electronic Music (4)
4. MUS 427. Advanced Studio Recording Techniques (4)
5. MUS 429. Topics in Music Technology (4)
6. MUS 448. Applied Technology II (1) for a total of (3)
7. MUS 575. Internship in Music Technology (4)
8. Music Electives (4 units)
  - Four units chosen from music courses, with approval of advisor.

**Musical Theatre Emphasis (31 units)**

1. TA 131. Makeup for Stage and Screen (3)
2. TA 251. Acting I: Games and Exercises (3)
3. TA 252. Acting II: Creating a Role (3)
4. Six units chosen from:
  - DAN 200A. Studies in Dance: Jazz (2)
  - DAN 200B. Studies in Dance: Modern (2)
  - DAN 200C. Studies in Dance: Tap (2)
  - DAN 200D. Studies in Dance: Ballet (2)
  - DAN 300A. Dance Techniques: Jazz (2)
  - DAN 300B. Dance Techniques: Modern (2)
  - DAN 300C. Dance Techniques: Tap (2)
  - DAN 300D. Dance Techniques: Ballet (2)
  - DAN 300E. Dance Techniques: Musical Theatre (2)
5. MUS 387. Opera Workshop (1) for a total of (2)
6. Two units chosen from:
  - MUS 302. Music Theatre Production (2)
  - TA 320A. Performance Practicum: Main Stage (2) (when production is a musical)
7. Four units chosen from:
  - MUS 302. Musical Theatre Production (2)
  - MUS 387. Opera Workshop (1)
  - TA 320A. Performance Practicum: Main Stage (2)
  - TA 320B. Performance Practicum: Imagination Players (2)
  - TA 320C. Performance Practicum: Touring Theatre (2)
  - TA 320E. Performance Practicum: Special Projects (2)
  - TA 320F. Performance Practicum: Dance Performance (2)
8. MUS 440. Upper-Division Voice II (1) for a total of (3)
9. MUS 375. Music Theater Internship (2)

10. Electives (3 units)  
Three units of music, theatre arts, or dance courses with approval of advisor.

**Ethnomusicology Emphasis (31 units)**

1. MUS 267. Introduction to Studio Recording Techniques (4)
2. Four units chosen from:
  - MUS 307. Music of the 20th and 21st Centuries (4)
  - MUS 308. Women in Music (4)
  - MUS 400. Studies in Composers (4)
  - MUS 401. Musical Theatre (4)
  - MUS 402. Studies in Genres (4)
  - MUS 426. Studies in Music History (4)
3. Eight units chosen from:
  - MUS 351. Latin American Music (4)
  - MUS 352. African American Music (4)
  - MUS 360. Music in the United States (4)
  - MUS 510. Special Topics in Music (4)
4. MUS 528. Special Projects (3) (used in preparation for senior project)
5. ANTH 102. Introduction to Anthropology: Culture and Society (4)
6. Electives (8 units)  
Eight units of upper-division anthropology courses, subject to approval of advisor.

**Music History Emphasis (31 units)**

1. Eight units chosen from:
  - MUS 307. Music of the 20th and 21st Centuries (4)
  - MUS 308. Women in Music (4)
  - MUS 400. Studies in Composers (4)
  - MUS 402. Studies in Genres (4)
  - MUS 426. Studies in Music History (4)
2. Eight units chosen from:
  - MUS 351. Latin American Music (4)
  - MUS 352. African American Music (4)
  - MUS 360. Music in the United States (4)
  - MUS 510. Special Topics in Music (4)
3. MUS 528. Special Projects (3) (used in preparation for senior project)
4. HIST 394. Introduction to History (4)
5. Electives (8 units)  
Eight units of upper-division history courses, subject to approval of advisor.

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**TEACHING CREDENTIAL PROGRAM**

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Students wishing to be recommended for the single subject teaching credential in music must complete the core requirements and Music Education Emphasis of the major in music, as well as certain prerequisites to the teacher education program. For information about the professional education component of the credential program, admission to the teacher education program and specific requirements for the single subject waiver program see Page 157 of this catalog, or contact the Credentials Office, CE-102.

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**MINOR IN JAZZ STUDIES**

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**Requirements (28 units)**

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**Requirements for a minor in Jazz Studies:**

1. MUS 100. Basic Musicianship (3)  
MUS 101. Basic Musicianship Laboratory (1)
2. MUS 120. Theory I (3) and  
MUS 121. Theory I Laboratory (1)
3. MUS 122. Theory II (3) and  
MUS 123. Theory II Laboratory (1)

Some or all of the above music theory courses can be waived based on departmental placement testing. Contact the Music Department chair for more details. Waived coursework must be replaced with other music courses of the same number of units.

4. MUS 220. Class Piano I (1)
5. MUS 221. Class Piano II (1)
6. MUS 230. Introduction to Jazz Improvisation (2)
7. MUS 330. Advanced Jazz Improvisation (2)
8. MUS 309. Jazz History (4)
9. Six units chosen from:
  - MUS 382H. Chamber Music: Jazz Combo (1)
  - MUS 391. Jazz Ensemble (1)
  - MUS 392. Vocal Jazz (1)

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**MINOR IN MUSIC**

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**Requirements (28 units)**

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**Requirements for a minor in Music:**

1. MUS 100. Basic Musicianship (3)  
MUS 101. Basic Musicianship Laboratory (1)
2. MUS 120. Theory I (3) and  
MUS 121. Theory I Laboratory (1)
3. MUS 122. Theory II (3) and  
MUS 123. Theory II Laboratory (1)

Some or all of the above music theory courses can be waived based on departmental placement testing. Contact the Music Department chair for more details. Waived coursework must be replaced with other music courses of the same number of units.

4. MUS 180. Studies in Music (4)
5. Two units chosen from:
  - MUS 205A. Class Guitar I (1)
  - MUS 205B. Class Guitar II (1)
  - MUS 206. Class Voice (1)
  - MUS 207. Diction for Singers (1)
  - MUS 220. Class Piano I (1)
  - MUS 221. Class Piano II (1)
6. Four units chosen from:
  - MUS 304. History of Music I (4)
  - MUS 305. History of Music II (4)
  - MUS 306. History of Music III (4)
  - MUS 350. Music of World Cultures (4)
  - MUS 351. Latin American Music (4)
7. Two units chosen from:
  - MUS 380. Chamber Orchestra (1)
  - MUS 381. Symphonic Band (1)
  - MUS 382. Chamber Music (1)
  - MUS 385. Concert Choir (1)
  - MUS 386. Chamber Singers (1)
8. Four units in music courses at the upper-division level.

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**MINOR IN RECORDING ARTS**

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**Requirements (28 units)**

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**Requirements for a minor in Recording Arts:**

1. MUS 100. Basic Musicianship (3)  
MUS 101. Basic Musicianship Laboratory (1)
2. MUS 120. Theory I (3) and  
MUS 121. Theory I Laboratory (1)
3. MUS 122. Theory II (3) and  
MUS 123. Theory II Laboratory (1)

Some or all of the above music theory courses can be waived based on departmental placement testing. Contact the Music Department chair for more details. Waived coursework must be replaced with other music courses of the same number of units.

4. MUS 266. Introduction to Computer and Electronic Music (4)
5. MUS 267. Introduction to Studio Recording Techniques (4)
6. MUS 416. Advanced Computer and Electronic Music (4)
7. MUS 427. Advanced Studio Recording Techniques (4)

## HONORS IN MUSIC

To be awarded honors in Music, music majors must:

1. Achieve a university grade point average of 3.6 or higher;
2. Achieve a Music Department grade point average of 3.8 or higher;
3. Demonstrate superior ability in musical performance, composition or scholarship as determined by judgment of Music Department faculty. This may be based on a project, performance, competition, teaching or other activity on or off campus;
4. In special circumstances the department may grant honors to students who fail to meet all the above requirements, but have in some other way demonstrated exceptional achievement in the field of music.

## COURSE OFFERINGS IN MUSIC (MUS)

### THEORY

The integrated music theory courses are the core of a program which seeks to develop in the student ability to cope with any aural experience. The courses deal with the materials of music and how they combine to create musical structures, analysis of representative works and continued development of the musical ear and keyboard facility. Designed primarily for the music major and the liberal arts student with a serious interest in music.

#### Lower Division

##### 100. Basic Musicianship

Rudiments of music: pitch, rhythm, scales, melody. Must be taken concurrently with MUS 101. (3 units)

##### 101. Basic Musicianship Laboratory

Applied musicianship experience including sightsinging, dictation, and introductory keyboard activity. Credits may not be counted toward fulfilling the requirements of the music major. Must be taken concurrently with MUS 100. (1 unit)

##### 120. Theory I

Basic materials of music and how they combine to create musical structures. Analysis of representative works is combined with creative work in counterpoint and harmony. Must be taken concurrently with MUS 121. Formerly MUS 111. Prerequisites: MUS 100 and 101 or equivalent or placement examination or consent of instructor. (3 units)

##### 121. Theory I Laboratory

Continuation of MUS 101. Applied musicianship experience including sightsinging, dictation, and keyboard activity. Must be taken concurrently with MUS 120. Prerequisites: MUS 100 and 101 or equivalent or placement examination. (1 unit)

##### 122. Theory II

Continuation of MUS 120. Must be taken concurrently with MUS 123. Formerly MUS 112. Prerequisites: MUS 120 and 121 or equivalent or consent of instructor. (3 units)

##### 123. Theory II Laboratory

Continuation of MUS 121. Applied musicianship experience including sightsinging, dictation, and keyboard activity. Must be taken concurrently with MUS 122. Prerequisites: MUS 120 and 121 or equivalent. (1 unit)

### 230. Introduction to Jazz Improvisation

Techniques of jazz improvisation including melodic construction, functional jazz harmonies, practice techniques, primary chord types, auxiliary tones, chromaticism and 12-bar blues form. May be repeated for credit. Prerequisites: MUS 122, 123, 221 or equivalent, or consent of instructor. (2 units)

#### Upper Division

##### 320. Theory III

Melody, harmony and texture as they relate to musical structure; extension of tonality and its eventual evolution into twentieth century practice; analysis of representative compositions. Must be taken concurrently with MUS 321. Formerly MUS 313. Prerequisites: MUS 122 and 123 or equivalent, or consent of instructor. (3 units)

##### 321. Theory III Laboratory

Continuation of sightsinging, ear and keyboard training. Must be taken concurrently with MUS 320. Prerequisites: MUS 122 and 123 or equivalent or consent of instructor. (1 unit)

##### 322. Theory IV

Continuation of MUS 320. Must be taken concurrently with MUS 323. Formerly MUS 314. Prerequisites: MUS 320 and 321 or equivalent or consent of instructor. (3 units)

##### 323. Theory IV Laboratory

Continuation of MUS 321. Must be taken concurrently with MUS 322. Prerequisites: MUS 320 and 321 or equivalent or consent of instructor. (1 unit)

##### 324. Theory V

Continuation of MUS 322. Must be taken concurrently with MUS 325. Formerly MUS 315. Prerequisites: MUS 322 and 323 or equivalent or consent of instructor. (3 units)

##### 325. Theory V Laboratory

Continuation of MUS 323. Must be taken concurrently with MUS 324. Prerequisites: MUS 322 and 323 or equivalent or consent of instructor. (1 unit)

### 330. Advanced Jazz Improvisation

Continuation of MUS 230. Studies of advanced techniques including chromatic harmony, tritone substitutions, substitute harmonic idioms, polyharmony, modal jazz, quartal jazz, and rhythm changes. Prerequisite: MUS 230 or equivalent, or consent of instructor. (2 units)

### 542. Studies in Musical Organization

Intensive study of aspects of musical organization: tonal, melodic and rhythmic. Prerequisite: satisfactory completion of MUS 315 or equivalent. (4 units)

## HISTORY AND LITERATURE

These courses are concerned with musical ideas and styles, as well as social and aesthetic factors influencing sounds composers ultimately preferred and organized.

#### Lower Division

##### 180. Studies in Music

Exploration of the elements of music and the nature of meaning and musical style, with emphasis on listening and analysis. (GE=C1) (4 units)

##### 208. Vocal Music Literature

A survey of major works of solo and ensemble vocal literature. (1 unit)

**274 / Music****209. Instrumental Music Literature**

A survey of major works of solo and ensemble instrumental literature. (1 unit)

**225. Music in the Theatre**

A survey of music as it is allied with drama, dance and film. (4 units)

**235. Popular Music Literature**

A survey of the contributions of operetta, show-tune styles, gospel music, the blues, "standards" of the 30s and 40s, folk and country music, rhythm-and-blues, early rock-and-roll, and the more contemporary and progressive styles of rock, pop and new wave music to twentieth century American popular culture. (4 units)

**Upper Division****304. History of Music I**

Development of Western music from antiquity through the Renaissance, with emphasis on analysis, listening and individual study. Prerequisites: MUS 122 and 123 or consent of instructor. (4 units)

**305. History of Music II**

Continuation of MUS 304. Baroque to the late nineteenth century. Prerequisites: MUS 122 and 123 or consent of instructor. (4 units)

**306. History of Music III**

Continuation of MUS 305. Late Romantic to the present. Prerequisites: MUS 122 and 123 or consent of instructor. (4 units)

**307. Music of 20th and 21st Centuries**

Intensive study of musical currents in the 20th and 21st centuries. Prerequisite: MUS 306 or consent of instructor. (4 units)

**308. Women in Music**

Contributions of women to the occidental and non-Western musical heritage in the areas of composition, performance and dance. (GE=G2) (4 units)

**309. Jazz History in America and African-American Culture**

Chronological study of jazz in the United States and the study of African-American musical culture in the U.S. Addresses cultural, racial, social, musical, and gender-related influences of jazz on current American arts, pop culture, language, and entertainment demographics. (GE=G2) (4 units)

**400. Studies in Composers**

Intensive study in the life and works of a particular composer. Content will vary. May be repeated for credit as topics change. Prerequisite: MUS 306 or consent of instructor. (4 units)

**401. Musical Theatre**

History of musical theatre, literature and production. Also offered as TA 401, students may not receive credit for both. (4 units)

**402. Studies in Genres**

Intensive study of a particular genre or form, such as symphony, concerto, oratorio, opera. Content will vary. May be repeated for credit as topics change. Prerequisite: MUS 306 or consent of instructor. (4 units)

**406. Orchestration**

Instrumental literature and orchestration, including study of the instruments of the orchestra and writing for instrumental groups. Prerequisites: MUS 122 and 123 or consent of instructor. (2 units)

**408. Arranging**

Continuation of MUS 406. Techniques of arranging for instrumental and vocal groups. Prerequisite: MUS 406 or consent of instructor. (2 units)

**426. Studies in Music History**

Intensive study in selected style periods of music. May be repeated for credit as topics change. Prerequisites: MUS 304, 305 and 306 or consent of instructor. (4 units)

**510. Special Topics in Music**

Areas of special interest in the various fields of music selected for special presentation and development. May be repeated for credit as topics change. Prerequisite: consent of instructor. (4 units)

**WORLD MUSIC**

The following courses are concerned with music as it has developed and as it exists in various cultures of the world. Courses include background necessary to enable the student to understand the role of music in particular societies. Visiting faculty and guest musicians when possible. No prerequisites. Non-music majors encouraged to enroll.

**Upper Division****350. Music of World Cultures**

A study of the major musical traditions of the world in their cultural context. (GE=G2) (4 units)

**351. Latin American Music**

An overview of the history and current performance practices of classical, folk, and popular music of Latin America. (4 units)

**352. African American Music**

Historical development of the African American musical heritage. (4 units)

**360. Music in the United States**

Primarily concerned with music not directly related to Western European classical traditions: folk heritage and blues tradition. (4 units)

**COMPOSITION**

Working creatively with sound in a relatively unstructured situation. Experimentation is encouraged, based on individual abilities and preferences.

**Lower Division****266. Introduction to Computer and Electronic Music**

An introduction to the history, development and practice of computer and electronic music. Non-majors are encouraged to enroll. (4 units)

**Upper Division****416. Advanced Computer and Electronic Music**

Intensive study in the history, development and practice of computer and electronic music. Prerequisite: MUS 266 or consent of instructor. (4 units)

**COMMERCIAL MUSIC****Lower Division****267. Introduction to Studio Recording Techniques**

Introductory course dealing with microphone techniques, aspects of recording, multi-tracking, mix-down and editing. (4 units)



## Upper Division

### 414. Commercial Arranging

Arranging and composition techniques for groups of varied instrumentation, incorporating concepts of jazz and commercial applications. Prerequisites: MUS 406 and 408 or consent of instructor. (2 units)

### 417. Composition for Films and Television

Study of the aesthetic, psychological and practical techniques involved in composing music for films and television. Prerequisite: MUS 414 or consent of instructor. (4 units)

### 427. Advanced Studio Recording Techniques

Intensive course dealing with microphone techniques, aspects of recording, multi-tracking, mix-down and editing. Prerequisite: MUS 267 or consent of instructor. (4 units)

### 429. Topics in Music Technology

Areas of special interest in the field of music technology. May be repeated for credit as topics change. Prerequisite: MUS 416 or consent of instructor.

- A. Analog and Digital Synthesis. Formerly MUS 428. (4 units)
- B. Acoustics (4 units)
- C. Other (4 units)

### 575. Internship in Music Technology

Supervised work in a public or private setting that provides professional experience in the field of music technology. May be repeated once for credit. Generally assumes 30 hours of work per unit of credit. Graded credit/no credit. Prerequisites: MUS 348, 429, and consent of instructor. (4 units)

## INDEPENDENT STUDY

### Upper Division

### 528. Special Projects

Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. May be repeated for credit. Prerequisite: consent of instructor. (1-4 units)

## MUSIC EDUCATION

The following courses are designed for the prospective elementary and secondary school teacher.

### Lower Division

### 201. Class Strings

- A. I: Beginning study on violin, viola, cello and bass. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. (1 unit)
- B. II: Continued study on violin, viola, cello and bass. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. Prerequisite: MUS 201A. (1 unit)

### 202. Class Woodwinds

- A. I: Beginning study on selected woodwinds. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. (1 unit)
- B. II: Continued study on selected woodwinds. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. Prerequisite: MUS 202A. (1 unit)

### 203. Class Brass

- A. I: Beginning study on selected brass instruments. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. (1 unit)
- B. II: Continued study on selected brass instruments. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. Prerequisite: MUS 203A. (1 unit)

### 204. Class Percussion

- A. I: Beginning study of percussion instruments. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. (1 unit)
- B. II: Continued study of percussion instruments. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. Prerequisite: MUS 204A. (1 unit)

### 205. Class Guitar

- A. I: Beginning study of guitar. (1 unit)
- B. II: Continued study of guitar. (1 unit)

### 206. Class Voice

Fundamentals of singing, voice production and diction. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. (1 unit)

### 207. Diction for Singers

Proper diction and pronunciation used in English, Latin, Italian, French and German vocal literature. Examples drawn from standard vocal literature. (1 unit)

### 210. Conducting

Introduction to basic conducting techniques. A minimum of two additional hours per quarter of guided field experience at an approved setting is required. (2 units)

### 220. Class Piano I

Basic keyboard techniques, including music reading, keyboard harmony and improvisation. Credit may not be counted toward fulfilling requirements of the music major. (1 unit)

### 221. Class Piano II

Basic keyboard techniques, including music reading, keyboard harmony and improvisation. Credit may not be counted toward fulfilling requirements of the music major. (1 unit)

### 222. Class Piano III

Basic keyboard techniques, including music reading, keyboard harmony and improvisation. (1 unit)

## Upper Division

### 301. Choral Conducting

Techniques and skills employed in the performance of choral literature. A minimum of two additional hours per quarter of guided field experience at an approved setting is required. Prerequisite: MUS 210. (2 units)

### 302. Music Theatre Production

Preparation and performance of major musical theater productions, including Broadway-styled musicals, opera, opera scenes, madrigal feasts, variety shows, and the like. May be repeated for credit. Total credit units that apply to any degree emphasis area are outlined in the specific catalog description for that emphasis. (2 units)

**303. Instrumental Conducting**

Techniques and skills employed in the performance of instrumental literature. A minimum of two additional hours per quarter of guided field experience at an approved setting is required. Prerequisite: MUS 210. (2 units)

**370. Music for Elementary Classroom Teachers**

Basic elements of music, including teaching strategies for using music in the elementary classroom. Class activities will include singing, movement, listening, playing classroom instruments, and musical composition. Students will also develop proficiency on the soprano recorder. Each student will develop and present a lesson plan integrating teaching of musical skills with other areas of the elementary curriculum, in accordance with the California and National Standards of Visual and Performing Arts. Two hours lecture and two hours activity. (3 units)

**372. Music Materials for Classroom Teachers**

Extension of the concepts of music education in the elementary school as developed in MUS 370. Practical strategies for integration of computer technologies into the curriculum are explored as well as the evaluation of elementary music textbooks and software. Writing projects include short- and long-term lesson plans to assist the child in becoming musically literate as outlined in the California Standards for Visual and Performing Arts. Special emphasis will be given to preparation for the CSET Music Subject Matter Examination. Open to liberal studies majors, music majors, and others with sufficient background. Prerequisite: MUS 100 or 370 or consent of instructor. (4 units)

**374. Music Methods for Classroom Teachers**

Major methodological approaches to teaching the basic elements of music. Methods studied will include, but not be limited to the following: *Orff-Schulwerk*, *Kodaly*, *Dalcroze*, *Gordon Learning Theory* and *Suzuki*. An understanding of each approach, its history, and application to classroom music instruction at both the elementary and secondary levels, along with continued proficiency on the soprano recorder. This course is designed in accordance with the California Standards for Visual and Performing Arts. Open to liberal studies majors, music majors, and others with sufficient background. Prerequisite: MUS 100 or 370 or consent of instructor. (4 units)

**410. Music in the Elementary Schools**

Materials and objectives in teaching music at the elementary school, including specialized instrumental and choral programs, singing and listening activities, and the use of simple instruments appropriate to child growth and development. Field work is included. Prerequisite: MUS 315 or consent of instructor. (4 units)

**411. Teaching Music in Secondary Schools**

Materials and objectives for teaching music in the secondary schools, including specialized instrumental and choral programs and marching band techniques. Field work is included. Prerequisite: MUS 315 or consent of instructor. (4 units)

**513. Orff Schulwerk Level I**

Music learning and teaching through the application of the Orff Schulwerk approach. Prerequisite: consent of instructor. (4 units)

**514. Orff Schulwerk Level II**

Music learning and teaching through the application of the Orff Schulwerk approach. Prerequisite: MUS 513. (4 units)

**516. Teaching Recorder in the Elementary Classroom I**

Development of personal performance skills on the soprano and tenor recorders as well as developing instructional skills in teaching these recorders in the elementary schools. (2 units)

**517. Teaching Recorder in the Elementary Classroom II**

Development of personal performance skills on the alto and bass recorders as well as developing instructional skills in teaching these recorders in the elementary school. Prerequisite: MUS 516. (2 units)

**519. Audio Production**

Methods for creating appropriate musical/audio instructional materials using basic audio production equipment. Does not count toward the music major. (2 units)

**535. Computer Studies for Music Teachers**

This course is intended for music teachers who wish to become familiar not only with hardware, music software, and basic computer music operations, but also with the specific uses of computer technology in the music classroom. Prerequisite: CSCI 127. (2 units)

**APPLIED MUSIC**

Music majors are required to take a minimum of nine units of applied music. Permission to register in either lower- or upper-division applied music lessons can be granted only after a placement audition and the approval of the full-time music faculty. Applied music lessons are available to music majors only, and may be taken only with concurrent enrollment in one of the major performance ensembles.

For students planning a career in music education, it is strongly recommended that, in addition to the nine-unit requirement on a major instrument, three units of applied music study on a secondary instrument be included.

All music majors are required to study on their major instrument a minimum of nine quarters while they are in residence. All applied music lessons constitute a one-half hour private instruction each week for the ten-week term.

The following preparatory applied music courses are open only to prospective music majors whose performance proficiency is below the collegiate level of MUS 140-145. Applied instruction at the preparatory MUS 80-85 level does not apply toward the degree or major. Enrollment in Preparatory Applied MUS 80-85 is permitted for a maximum of three units.

MUS 80. Preparatory Voice (1 unit)

MUS 81. Preparatory Piano (1 unit)

MUS 82. Preparatory String Instrument

A. Violin (1 unit)

B. Viola (1 unit)

C. Cello

D. Bass (1 unit)

E. Guitar (1 unit)

F. Harp (1 unit)

MUS 83. Preparatory Wind Instrument

A. Flute (1 unit)

B. Clarinet (1 unit)

C. Oboe (1 unit)

D. Bassoon (1 unit)

E. Saxophone (1 unit)

MUS 84. Preparatory Brass Instrument

A. Trumpet (1 unit)

B. Horn (1 unit)

C. Trombone (1 unit)

D. Tuba (1 unit)

MUS 85. Preparatory Percussion (1 unit)

**80. Preparatory Voice**

One-half hour per week of private instruction. Open only to prospective music majors whose performance proficiency is below the collegiate level of MUS 140. Credit does not apply toward the degree or major. May be repeated for a maximum of three units. Graded credit/no credit. (1 unit)

**81. Preparatory Piano**

One-half hour per week of private instruction. Open only to prospective music majors whose performance proficiency is below the collegiate level of MUS 141. Credit does not apply toward the degree or major. May be repeated for a maximum of three units. Graded credit/no credit. (1 unit)

**82. Preparatory String Instrument**

One-half hour per week of private instruction. Open only to prospective music majors whose performance proficiency is below the collegiate level of MUS 142. Credit does not apply toward the degree or major. May be repeated for a maximum of three units. Graded credit/no credit.

- A. Violin (1 unit)
- B. Viola (1 unit)
- C. Cello (1 unit)
- D. Bass (1 unit)
- E. Guitar (1 unit)
- F. Harp (1 unit)

**83. Preparatory Wind Instrument**

One-half hour per week of private instruction. Open only to prospective music majors whose performance proficiency is below the collegiate level of MUS 143. Credit does not apply toward the degree or major. May be repeated for a maximum of three units. Graded credit/no credit.

- A. Flute (1 unit)
- B. Clarinet (1 unit)
- C. Oboe (1 unit)
- D. Bassoon (1 unit)
- E. Saxophone (1 unit)

**84. Preparatory Brass Instrument**

One-half hour per week of private instruction. Open only to prospective music majors whose performance proficiency is below the collegiate level of MUS 144. Credit does not apply toward the degree or major. May be repeated for a maximum of three units. Graded credit/no credit.

- A. Trumpet (1 unit)
- B. Horn (1 unit)
- C. Trombone (1 unit)
- D. Tuba (1 unit)

**85. Preparatory Percussion**

One-half hour per week of private instruction. Open only to prospective music majors whose performance proficiency is below the collegiate level of MUS 145. Credit does not apply toward the degree or major. May be repeated for a maximum of three units. Graded credit/no credit. (1 unit)

**Lower Division**

The following music courses are available to undergraduate music majors only:

**140. Lower-Division Voice I**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

**141. Lower-Division Keyboard Instrument I**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Piano (1 unit)
- B. Organ (1 unit)
- C. Harpsichord (1 unit)

**142. Lower-Division String Instrument I**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Violin (1 unit)
- B. Viola (1 unit)
- C. Cello (1 unit)
- D. Bass (1 unit)
- E. Guitar (1 unit)
- F. Harp (1 unit)

**143. Lower-Division Wind Instrument I**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Flute (1 unit)
- B. Clarinet (1 unit)
- C. Oboe (1 unit)
- D. Bassoon (1 unit)
- E. Saxophone (1 unit)

**144. Lower-Division Brass Instrument I**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Trumpet (1 unit)
- B. Horn (1 unit)
- C. Trombone (1 unit)
- D. Tuba (1 unit)

**145. Lower-Division Percussion Instrument I**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

**240. Lower-Division Voice II**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

**241. Lower-Division Keyboard Instrument II**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Piano (1 unit)
- B. Organ (1 unit)
- C. Harpsichord (1 unit)

**242. Lower-Division String Instrument II**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Violin (1 unit)
- B. Viola (1 unit)
- C. Cello (1 unit)
- D. Bass (1 unit)
- E. Guitar (1 unit)
- F. Harp (1 unit)

**243. Lower-Division Wind Instrument II**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Flute (1 unit)
- B. Clarinet (1 unit)
- C. Oboe (1 unit)
- D. Bassoon (1 unit)
- E. Saxophone (1 unit)

**244. Lower-Division Brass Instrument II**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Trumpet (1 unit)
- B. Horn (1 unit)
- C. Trombone (1 unit)
- D. Tuba (1 unit)

**245. Lower-Division Percussion Instrument II**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

**246. Lower-Division Composition**

One-half hour per week of private instruction. Prerequisites: MUS 122 and 123 or equivalent, at least one year of applied vocal or instrumental instruction at the collegiate level (MUS 140-145), a placement audition, and approval of music faculty. (1 unit)

**Upper Division****340. Upper-Division Voice I**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

**341. Upper-Division Keyboard Instrument I**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Piano (1 unit)
- B. Organ (1 unit)
- C. Harpsichord (1 unit)

**342. Upper-Division String Instrument I**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Violin (1 unit)
- B. Viola (1 unit)
- C. Cello (1 unit)
- D. Bass (1 unit)
- E. Guitar (1 unit)
- F. Harp (1 unit)

**343. Upper-Division Wind Instrument I**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Flute (1 unit)
- B. Clarinet (1 unit)
- C. Oboe (1 unit)
- D. Bassoon (1 unit)
- E. Saxophone (1 unit)

**344. Upper-Division Brass Instrument I**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Trumpet (1 unit)
- B. Horn (1 unit)
- C. Trombone (1 unit)
- D. Tuba (1 unit)

**345. Upper-Division Percussion Instrument I**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

**346. Upper-Division Composition I**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

**348. Applied Technology I**

Individual instruction in applied music technology and directed study in characteristic repertoire, live performance, digital programming, and/or creative layering of sound. One-half hour per week of private instruction. Formerly MUS 447. Prerequisite: MUS 416 or 427 and approval of music faculty. (1 unit)

**440. Upper-Division Voice II**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

**441. Upper-Division Keyboard Instrument II**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Piano (1 unit)
- B. Organ (1 unit)
- C. Harpsichord (1 unit)

**442. Upper-Division String Instrument II**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Violin (1 unit)
- B. Viola (1 unit)
- C. Cello (1 unit)
- D. Bass (1 unit)
- E. Guitar (1 unit)
- F. Harp (1 unit)

**443. Upper-Division Wind Instrument II**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Flute (1 unit)
- B. Clarinet (1 unit)
- C. Oboe (1 unit)
- D. Bassoon (1 unit)
- E. Saxophone (1 unit)

**444. Upper-Division Brass Instrument II**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Trumpet (1 unit)
- B. Horn (1 unit)
- C. Trombone (1 unit)
- D. Tuba (1 unit)

**445. Upper-Division Percussion Instrument II**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

**446. Upper-Division Composition II**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

**448. Applied Technology II**

Advanced individual instruction in applied music technology, with directed study in characteristic repertoire, live performance, digital programming, and creative layering of sound. One-half hour per week of private instruction. Prerequisites: MUS 348 or consent of instructor. (1 unit)

**498. Junior Project**

Independent study with applied instructor or principal instructor in area of emphasis. Prerequisite: junior standing and consent of department. Formerly MUS 992. (1 unit)



**499. Junior Recital**

Preparation for recital with applied instructor. Prerequisites: junior standing, attained 300-level in applied study, and consent of department. Formerly MUS 995. (1 unit)

**598. Senior Project**

Independent study with applied music instructor or principal instructor in area of emphasis. Prerequisites: senior standing and consent of department. Formerly MUS 993. (1 unit)

**599. Senior Recital**

Preparation for recital with applied instructor. Prerequisites: senior standing, attained 400-level in applied study, and consent of department. Formerly MUS 996. (1 unit)

**PERFORMANCE ORGANIZATIONS**

Participation in performance organizations may be repeated for credit.

**Upper Division****375. Music Theatre Internship**

Supervised work in a public or private setting that includes primarily professional auditioning and performing experience in the field of music theater. May be repeated twice for credit. Generally assumes 30 hours of work per unit of credit. Graded credit/no credit. Prerequisites: DAN 300, MUS 340, and either MUS 302, 387 or TA 302. (2 units)

**380. Chamber Orchestra**

Performance of representative orchestral literature. Prerequisite: consent of instructor. (1 unit)

**381. Symphonic Band**

Performance of representative symphonic band literature. (1 unit)

**382. Chamber Music**

Performance of small ensemble music as determined by available instrumentation. Prerequisite: consent of instructor.

- A. Woodwinds (1 unit)
- B. Percussion (1 unit)
- C. Flute Choir (1 unit)
- D. Brass Quintet (1 unit)
- E. Saxophone (1 unit)
- F. Guitar Ensemble (1 unit)
- G. Clarinet Ensemble (1 unit)
- H. Jazz Combo. Prerequisite: MUS 230 or consent of instructor. (1 unit)

**385. Concert Choir**

Performance of representative choral literature. (1 unit)

**386. Chamber Singers**

Prerequisite: consent of instructor. (1 unit)

**387. Opera Workshop**

Prerequisite: consent of instructor. (1 unit)

**388. Women's Chorus**

Performance of representative choral literature for women's ensemble. (1 unit)

**389. Chamber Winds**

Performance of representative literature for wind ensemble. Prerequisite: consent of instructor. (1 unit)

**391. Jazz Ensemble**

Performance of representative jazz ensemble literature. Prerequisite: consent of instructor. (1 unit)

**392. Vocal Jazz**

A select vocal ensemble dedicated to the performance of American vocal jazz, emphasizing vocal jazz improvisation and jazz styles. Active performance schedule can be expected. Prerequisite: consent of instructor. (1 unit)

**393. Collegium Musicum**

Performance of representative vocal and instrumental literature from the Medieval and Renaissance periods. Four hours activity per week. Prerequisite: consent of instructor. (1 unit)

**395. Symphonic Choir**

Performance of major works for large choral ensemble. Will present at least one public performance per quarter. Open to all students by audition. Prerequisite: consent of instructor. (1 unit)

**396. Reverence Singers**

Performance of vocal literature from the Afro-American tradition. (1 unit)

**COMMUNITY SERVICE PROJECT****Upper Division****399. Community Service Project**

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of instructor. (1-2 units)

Graduate level courses can be found on Page 472.

# NATURAL SCIENCES

## College of Natural Sciences

Biological Sciences Building, Room 107  
(909) 537-5300 <http://nsci.csusb.edu/>

The university offers courses of an interdisciplinary nature but no degree program under the natural sciences designation.

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### COURSE OFFERINGS IN NATURAL SCIENCES (NSCI)

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#### Lower Division

##### 295. Special Projects in Natural Science

Individual investigation, research, study or survey of selected problems. Prerequisite: consent of instructor. (1-2 units)

##### 296. Special Projects in Natural Science

Individual investigation, research, study or survey of selected laboratory problems. Prerequisite: consent of instructor. (1-2 units)

#### Upper Division

##### 300. Science and Technology

Relationship between science and technology-past, present and future-with case studies of the energy crisis, the technology of pollution control and recycling, automation, computers, technology assessment and other contemporary issues. Prerequisite: junior or senior standing. (GE=B5) (4 units)

##### 306. Expository Writing for the Natural Sciences

Writing on topics related to the natural sciences, including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. No more than one of the expository writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly NSCI 495. Graded A, B, C/no credit. Prerequisites: ENG 101 and a minimum of 90 quarter (60 semester) units of college credit. (GE=F1) (4 units)

##### 310. The Environment and Human Survival

Consideration of the environment and environmental problems generated by the interactive effects of our biological heritage, the impact of science and technology, and our cultural attitudes. Prerequisite: junior or senior standing. (GE=B5) (4 units)

##### 314. Life in the Cosmos

Life in the cosmos is discussed using the findings of astronomy, biology, chemistry and physics. Topics include the development of life and its environment, the search for life, interstellar communications and travel and the effects of contact. Prerequisite: junior or senior standing. (GE=B5) (4 units)

##### 315. Natural Disasters

A consideration of natural processes such as volcanic eruptions, earthquakes, global sea level rise, slope failures, floods, wildland fires, meteoric impacts and severe forms of weather, that have had or may have disastrous consequences on both humans and the environment. Prerequisite: junior or senior standing. (GE=B5) (4 units)

##### 320. Energy

Present and future energy sources, including fossil fuels, hydroelectric power, nuclear energy and solar energy. Scientific principles and technological requirements for developing energy sources, economic factors and environmental problems associated with energy production and consumption. Prerequisite: junior or senior standing. (GE=B5) (4 units)

##### 325. Perspectives on Gender

This interdisciplinary course uses scientific, humanistic and social science perspectives to foster an understanding of how gender roles in Western culture are established, maintained and changed. (Also offered as HUM 325 and SSCI 325. Students may receive credit for only one of these courses.) Prerequisite: junior or senior standing. (GE=B5, G1) (4 units)

##### 351. Health and Human Ecology

A survey of the impact of physical, social and biological environments on health related issues such as poor housing, drug abuse, juvenile delinquency, radiation and pesticide exposure, food quality, noise, air and water resources and their relation to human settlements. Prerequisite: junior or senior standing. (GE=B5) (4 units)

##### 360. Legacy of Life

History of life on earth and the processes that govern its genesis, evolution, extinction, ecology, and preservation. Prerequisite: junior or senior standing. (GE=B5) (4 units)

##### 395. Directed Study

Reading and library research in one of the natural sciences disciplines conducted under the direction of a faculty member. Prerequisites: consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-4 units)

##### 486. Science, Technology and Warfare

Historical examination of the effect of science and technology on warfare. (4 units)

##### 499. Methods and Materials in the Teaching of Natural Sciences Subjects

Individualized instruction in the methods and materials for the teaching of such natural sciences subjects as chemistry, life science, physical education and physics. This course may not be counted toward fulfilling requirements of courses in the above majors. Prerequisites: ESEC 332 (or 330), senior or graduate standing and admission to the single subject credential program or consent of College of Natural Sciences. (4 units)

##### 595. Independent Study

Research in special topics including library studies, field and/or laboratory work in one of the natural sciences disciplines under the direction of a faculty member. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. A maximum of five units in NSCI 595 may be applied toward graduation. (1-5 units)

Graduate level courses can be found on Page 476.

# NURSING

## Department of Nursing

Health and Physical Education, Room 215

(909) 537-5380 <http://nursing.csusb.edu/index.asp>

### Bachelor of Science

*Accredited by the Commission on Collegiate Nursing Education (CCNE)*

Nursing

Nursing - R.N.

### Master of Science

Community Health Nursing

School Nurse

(Degree requirements can be found on Page 477.)

**FACULTY:** Debra Cohen, Lynne Leach (Chair), Mary Cannon, Cheryl diPretoro, Mikel Hand (MSN Coordinator), Susan McGee-Stehsel, Mary Molle, Phyllis Nix (BSN Coordinator), Donna Rane-Szostak (PDC Coordinator), Ora Robinson, Paula Spencer, Marilyn Stoner, Paul Wielenga

The Department of Nursing offers a program leading to the Bachelor of Science degree with a major in nursing. The program is approved by the Board of Registered Nursing of California, accredited by the Commission on Collegiate Nursing Education (CCNE), and meets requirements for public health nursing certification in California.

Courses are provided that include theory and clinical experience in caring for clients across the life span who are from diverse psychosocial and cultural backgrounds. A wide range of health care agencies is used for clinical experience. The intent of the program is to graduate generalists in nursing who are concerned with promoting optimum health in a variety of settings.

The B.S. in Nursing is an impacted program. Students are screened for admission to the program prior to the first nursing course, NURS 200. The major factor in screening is the student's grades in courses prerequisite to NURS 200. Only California permanent residents are eligible for admission. All new pre-nursing majors must attend a general advising session with the Nursing Department. Contact the Department of Nursing for more information.

Students in the nursing program must carry malpractice insurance, personal health insurance, and workers compensation (as required by clinical agencies). Low-cost insurance is available through the Student Nurses Association of California and through professional organizations for registered nurses or through many independent companies. Nursing students must have a valid California driver's license and access to an automobile covered by appropriate automobile insurance. Prior to entering the first quarter of classes, students must have a current American Heart Association CPR-Healthcare Provider card, proof of a physical examination, proof of immunity to rubella, hepatitis B and other specified infectious diseases, a two-step Mantoux skin test, and a chest x-ray if there is proof of a positive TB skin test.

Additional immunizations may be required. Proofs of annual renewal of CPR certification and PPD testing or chest x-ray, if indicated, will be required. Information about professional behavior, clinical attire, picture identification and other regulations can be found in the undergraduate student handbook. All nursing students are required to complete a background check upon admission to the program. Additional background checks, including drug screen testing may be required by certain clinical agencies at the student's expense. All convictions must be reported, except for minor traffic violations. When applying for licensure with the Board of Registered Nursing (BRN), all

prior convictions will be reviewed as related to the qualifications, functions or duties of a registered nurse. Each application is evaluated on a case-by-case basis. The BRN considers the nature, severity, and recency of the offenses, as well as rehabilitation and other factors. When applying for licensure with the BRN, prospective nursing students are advised that they will have to disclose their social security number.

### Registered Nurse Applicants

Nurses possessing an associate degree or diploma in nursing and holding current California licensure as a registered nurse may apply for admission as a transfer student at the junior level. Diploma graduates may enter the university as "natural sciences undeclared (nursing) majors" while completing lower-division requirements.

See the B.S. in Nursing-RN on the next page. Enrollment of RNs in nursing courses is on a space-available basis. Contact the Department of Nursing for more information about the RN-BSN program.

### Department Regulations

1. Students in the Nursing major must earn grades of "C" or better in all nursing courses and in all natural and social science courses prerequisite or corequisite to the major. If a grade less than "C" is earned in any nursing major course, the student will be dropped from the Nursing program. Upon successful re-application to the Nursing major, Nursing courses for which the student has earned less than a grade of "C" may be attempted or repeated only one time. Students may not enroll in any course that requires other nursing prerequisites unless the prerequisite courses are completed with grades of "C" or better. Additional academic policies can be found in the Department of Nursing BSN Nursing Student Handbook.

### Licensed Vocational Nurse Applicants

Vocational nurses licensed in California may enroll in selected courses to meet requirements for licensure as a registered nurse in California. The courses required of licensed vocational nurses are: BIOL 220, 224, NURS 220, 221, 316, 322, 323, 400, 401, 404, and 405. Taking these courses enables Licensed Vocational Nurses to meet eligibility requirements to write the examination to become a Registered Nurse in the State of California, but does not result in a degree.

Licensed Vocational Nurses may also choose to enroll in the baccalaureate program to receive a B.S. degree with a major in nursing. For the degree option, Licensed Vocational Nurses begin the nursing sequence with NURS 220. Enrollment of LVNs in nursing courses is on a space-available basis.

## B.S. IN NURSING

### Requirements (195 units)

#### Total units required for graduation: 195

### Admission Requirements

1. Application must be submitted by March 1 for Fall term and October 1 for Spring term;
2. Completion of the ATI-TEAS pre-admission examination;
3. A minimum grade point average of 2.5 overall and 2.5 on prerequisite courses listed below;
4. Additional supplemental requirements for impacted programs include health care experience, second language competence and local service area residency.

### Department Regulations

1. Students in the Nursing major must earn grades of "C" or better in all nursing courses and in all natural and social science courses prerequisite or corequisite to the major. If a grade less than "C" is earned in any nursing major course, the student will be dropped

from the Nursing program. Upon successful re-application to the Nursing major, Nursing courses for which the student has earned less than a grade of "C" may be attempted or repeated only one time. Students may not enroll in any course that requires other nursing prerequisites unless the prerequisite courses are completed with grades of "C" or better. Additional academic policies can be found in the Department of Nursing BSN Nursing Student Handbook.

2. Students on academic probation must remove grade-point deficiencies before progressing further in the nursing program.
3. Nursing students must carry malpractice insurance in the amount of not less than \$1,000,000 per occurrence and \$3,000,000 per year or more in order to be admitted to clinical courses.
4. Prior to the first quarter of classes, students must submit a report of a recent physical examination, including tuberculosis skin testing, indicating that they are able to engage in activities required to meet the expectations of the program. Exams are available by appointment through the Student Health Center for a fee. Immunizations and/or proofs of immunity are required. Contact the Department of Nursing for more information.
5. Students must have current Health Insurance. See Department for instructions.
6. Students must have a current background check prior to their clinical experience. See Department for instructions.
7. Students must have access to insured transportation for their clinical experience.
8. Clothing required by the clinical facility appropriate for that setting must be provided by the students with appropriate identification by name and school. (Name pin and arm patch are available for purchase at the Coyote Bookstore.)
9. Advisement with a faculty member is required prior to registration each quarter.
10. Students must participate in the department competency assessment program.

## Degree Requirements

Prerequisite support courses required for admission:

1. BIOL 220. Principles of Microbiology (5)
2. BIOL 223. Human Physiology and Anatomy I (5)
3. BIOL 224. Human Physiology and Anatomy II (5)
4. CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
5. CHEM 208. Survey of Human Biochemistry (3)
6. COMM 120. Oral Communication (4)
7. One critical thinking course that satisfies category A4 in the General Education Program.
8. ENG 101. Freshman Composition (4)
9. One math course that satisfies category A3/B1 in the General Education Program.

Support courses required which may be taken after admission to the nursing major:

1. MATH 305. Statistics: Hypothesis Testing and Estimation (4)
2. PSYC 201. Developmental Psychology (4)
3. One integrative capstone course that meets the multicultural/gender requirement in the general education program (4)

Lower-division requirements (22 units)

1. NURS 200. Foundations of Nursing Process, Roles and Skills (4)
2. NURS 201. Foundations of Nursing Process, Roles and Skills: Laboratory (3)
3. NURS 204. Beginning Nursing Process, Roles and Skills (4)
4. NURS 205. Beginning Nursing Process, Roles and Skills: Laboratory (3)

5. NURS 220. Intermediate Nursing Process, Roles and Skills (4)
6. NURS 221. Intermediate Nursing Process, Roles and Skills: Laboratory (4)

Upper-division requirements (61 units)

1. NURS 316. Health Assessment (4)
2. NURS 322. Advanced Nursing Process, Roles and Skills (3)
3. NURS 323. Advanced Nursing Process, Roles and Skills: Laboratory (4)
4. NURS 332. Families and Children (4)
5. NURS 333. Families and Children: Laboratory (3)
6. NURS 334. Maternal Child and Women's Health (4)
7. NURS 335. Maternal Child and Women's Health: Laboratory (3)
8. NURS 340. Theories of Nursing (2)
9. NURS 380. Pathophysiological Concepts as Applied to Nursing Practice (4)
10. NURS 400. Psych/Mental Health Nursing (4)
11. NURS 401. Psych/Mental Health Nursing: Laboratory (4)
12. NURS 404. Leadership in Nursing: Nursing Management (4)
13. NURS 405. Leadership in Nursing: Laboratory (4)
14. NURS 406. Community/Public Health Nursing (4)
15. NURS 407. Community/Public Health Nursing: Laboratory (4)
16. NURS 422. Nursing Research (4)
17. NURS 425. Issues and Trends in Nursing and Health Care (2)

## B.S. IN NURSING - RN

### Requirements (180 units)

**Total units required for graduation: 180**

### Department Regulations

1. Admission requirements
  - a. A grade point average of 3.0 ("B") or better in prerequisite support courses listed below;
  - b. A grade point average of 3.0 ("B") or better in the A.D.N. program or diploma program;
  - c. Submission of an active California Registered Nurse (RN) License;
  - d. Submission of RN screening form and all transcripts;
  - e. Application to CSUSB with second set of transcripts;
  - f. Students who are close to these standards may be admissible upon remediation.
2. This program assumes all lower-division general education requirements have been met. The IGETC is valuable, but not required. Some lower division general education courses can be completed while the BSN program is in progress, but this will extend time to graduation.
3. Sixteen units of upper-division General Education courses are required (see Page 66 for further information).
4. Students may transfer in a maximum of 105 lower-division coursework units towards the major.
5. Students may need to take additional units at CSUSB to satisfy the 180-unit requirement.
6. Prior to participating in the program, RN students must provide proofs of immunity to certain infectious diseases, personal health insurance, workers compensation (as required by certain clinical agencies), a valid California driver's license and access to an automobile covered by appropriate automobile insurance. Also required are a current American Heart Association Healthcare Provider CPR card, a background check, and other immunizations. Contact the Department of Nursing for additional requirements.



## Degree Requirements

### Prerequisite support courses

1. BIOL 220. Principles of Microbiology (5)
2. BIOL 223. Human Physiology and Anatomy I (5)
3. BIOL 224. Human Physiology and Anatomy II (5)
4. CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
5. CHEM 208. Survey of Human Biochemistry (3)
6. COMM 120. Oral Communication (4)
7. One critical thinking course that satisfies category A4 in the General Education Program.
8. ENG 101. Freshman Composition (4)
9. One math course that satisfies category A3/B1 in the General Education Program.

Support courses required which may be taken after admission to the nursing major

1. MATH 305. Statistics: Hypothesis Testing and Estimation (4)
2. PSYC 201. Developmental Psychology (4)
3. One integrative capstone course that meets the multicultural/gender requirement in the general education program (4)

### Junior Nursing Courses

1. NURS 310. Transition to Baccalaureate Nursing Education (2)
2. NURS 316. Health Assessment (4)
3. NURS 340. Theories of Nursing (2)
4. NURS 380. Pathophysiological Concepts as Applied to Nursing Practice (4)

### Senior Nursing Courses

1. NURS 404. Leadership in Nursing: Nursing Management (4)
2. NURS 405. Leadership in Nursing: Laboratory (4)
3. NURS 406. Community/Public Health Nursing (4)
4. NURS 407. Community/Public Health Nursing: Laboratory (4)
5. NURS 410. Transitional Concepts for Professional Nursing (2)
6. NURS 411. Transitional Concepts for Professional Nursing: Laboratory (4)
7. NURS 422. Nursing Research (4)
8. NURS 425. Issues and Trends in Nursing and Health Care (2)

Students must also meet the university's general education requirements. Twenty-one units of the major are part of the general education requirements.

## DEPARTMENTAL HONORS

A graduating senior will be awarded departmental honors in nursing after meeting the following requirements:

1. Achieve a minimum grade point average of 3.6 in all upper-division courses taken at the university;
2. A clear demonstration of the ability to do independent work in nursing and recommendation by the faculty of the Department of Nursing.

## COURSE OFFERINGS IN NURSING (NURS)

### Lower Division

#### 200. Foundations of Nursing Process, Roles and Skills

Introduction to nursing process and nursing role, including basic cognitive, psychomotor, interpersonal, and assessment skills. Prerequisites: sophomore standing, admission to nursing major; BIOL

220, 223 and 224; CHEM 205, 208; completion of G.E. requirements in critical thinking and mathematics or passing score on the Entry Level Mathematics examination; ENG 101; COMM 120. Corequisite: NURS 201. (4 units)

#### 201. Foundations of Nursing Process, Roles and Skills: Laboratory

Application of knowledge and skills from NURS 200. Care of clients in various settings who need a moderate level of nursing care. Materials fee required. Prerequisites: admission to nursing major and consent of department. Corequisite: NURS 200. (3 units)

#### 204. Beginning Nursing Process, Roles and Skills

Theory and application of nursing process and nursing role with mid-lescent and older individuals and families of diverse psychosocial and cultural backgrounds. Prerequisites: NURS 200 and consent of department. Corequisite: NURS 205. (4 units)

#### 205. Beginning Nursing Process, Roles and Skills: Laboratory

Clinical experience in settings emphasizing physical and emotional care of mid-lescent and older adults needing a moderate level of care. Materials fee required. Prerequisite: consent of department. Corequisite: NURS 204. (3 units)

#### 220. Intermediate Nursing Process, Roles and Skills

Principles of assessment and care of acutely ill individuals of various ages and psychosocial and cultural backgrounds. Pathophysiology as basis of nursing assessment and care. Prerequisites: NURS 204 and consent of department. Corequisite: NURS 221. (4 units)

#### 221. Intermediate Nursing Process, Roles and Skills: Laboratory

Application of knowledge and skills from NURS 220. Care of clients in subacute and acute care settings. Materials fee required. Prerequisite: consent of department. Corequisite: NURS 220. (4 units)

### Upper Division

#### 310. Transition to Baccalaureate Nursing Education

Concepts related to transitioning from ADN to BSN nursing roles. Explores learning and technology skills, and competencies required of the professional nurse. Prerequisite: consent of the nursing department, active CA RN license. (2 units)

#### 316. Health Assessment

Determining and measuring variables relevant to assessment of psychosocial and physical health. Formerly NURS 223. Two hours lecture and six hours laboratory. Materials fee required. Prerequisites: NURS 200 and 201. (4 units)

#### 322. Advanced Nursing Process, Roles and Skills

Continuation of principles of assessment and care of acutely ill individuals of various ages and psychosocial and cultural backgrounds. Pathophysiology as basis of nursing assessment and care. Prerequisites: NURS 400, 401 and consent of department. Corequisite: NURS 323. (3 units)

#### 323. Advanced Nursing Process, Roles and Skills: Laboratory

Application of knowledge and skills from NURS 322. Care of clients in subacute and acute care settings. Materials fee required. Prerequisite: 400, 401 and consent of department. Corequisite: NURS 322. (4 units)

**332. Families and Children**

Theory and application of nursing process and nursing role with families from diverse psychosocial and cultural backgrounds and their children. Formerly NURS 330. Prerequisites: NURS 334 and 335 and consent of department. Corequisite: NURS 333. (4 units)

**333. Families and Children: Laboratory**

Clinical experience in settings emphasizing care of families with children needing a moderate level of care. Materials fee required. Formerly NURS 331. Prerequisites: 334 and 335 and consent of department. Corequisite: NURS 332. (3 units)

**334. Maternal Child and Women's Health**

Theory and application of nursing process and nursing role with childbearing families from diverse psychosocial and cultural backgrounds. Formerly NURS 330. Prerequisites: NURS 220, 221 and consent of department. Corequisite: NURS 335. (4 units)

**335. Maternal Child and Women's Health: Laboratory**

Clinical experience in settings emphasizing care of childbearing families needing a moderate level of care. Materials fee required. Formerly NURS 331. Prerequisites: NURS 220, 221 and consent of department. Corequisite: NURS 334. (3 units)

**340. Theories of Nursing**

Introduction to various conceptual models of nursing. Implications of these models for nursing. Formerly NURS 450. Prerequisites: NURS 322, 323 and consent of department. (2 units)

**375. Cooperative Education**

Application of nursing concepts and skills through supervised work in a hospital or other health care agency. Sixteen hours of supervised work and a two-hour group meeting are required each week. Open only to non-licensed nursing majors. May be taken quarterly, but only four units may be applied toward the degree. Graded credit/no credit. Prerequisites: NURS 200, 201 and departmental approval of a standard application filed in advance of the quarter in which the course is to be taken. (2 units)

**380. Pathophysiological Concepts as Applied to Nursing Practice**

Pathophysiological concepts as applied to nursing practice with an emphasis on the body's response to the disease process. Prerequisites: BIOL 223, 224 and consent of department. (4 units)

**396. Selected Topics in Nursing**

Selected nursing topics with specific focus. May be repeated for credit as topics change. Prerequisite: consent of department chair prior to registration. (2 units)

**399. Community Service Project**

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of four units. No more than four units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisites: submission of a project proposal and consent of department chair prior to registration. (1-2 units)

**400. Psych/Mental Health Nursing**

Principles of health promotion and chronic illness care with mentally and physically ill middle-aged and older adults with diverse psychosocial and cultural backgrounds. Prerequisites: NURS 332, 333, 334, 335 and consent of department. Corequisite: NURS 401. (4 units)

**401. Psych/Mental Health Nursing: Laboratory**

Application of knowledge and skills from NURS 400. Clinical experience in various ambulatory care settings with mentally and physically ill middle-aged and older adults. Materials fee required. Prerequisites: NURS 332, 333, 334, 335 and consent of department. Corequisite: NURS 400. (4 units)

**404. Leadership in Nursing: Nursing Management**

Concepts of leadership in innovative nursing roles. Synthesis of knowledge and skills in critical thinking, communication and therapeutic nursing interventions as a leader and change agent on the interdisciplinary health team. Prerequisites: NURS 406, 407 and consent of department. Corequisite: NURS 405. (4 units)

**405. Leadership in Nursing: Laboratory**

Clinical experience focusing on innovative nursing roles in various settings. Materials fee required. Prerequisite: NURS 406, 407 and consent of department. Corequisite: NURS 404. (4 units)

**406. Community/Public Health Nursing**

Principles of health promotion and chronic illness care with young individuals and families of diverse psychosocial and cultural backgrounds. Formerly NURS 324. Prerequisites: NURS 322, 323, 400, 401 and consent of department. Corequisite: NURS 407. (4 units)

**407. Community/Public Health Nursing: Laboratory**

Application of knowledge and skills from NURS 406. Clinical experience in community health agencies with young individuals and families. Materials fee required. Formerly NURS 325. Prerequisites: NURS 322, 323, 400, 401 and consent of department. Corequisite: NURS 406. (4 units)

**410. Transitional Concepts for Professional Nursing**

Socialization and development into professional nursing roles. Exploration of current theories, concepts and health issues for populations with diverse psychosocial and cultural backgrounds. Prerequisites: NURS 310 and consent of the department. Materials fee required. Corequisite: NURS 411. (2 units)

**411. Transitional Concepts for Professional Nursing: Laboratory**

Practice of professional nursing roles with populations of diverse psychosocial and cultural backgrounds. Prerequisites: Active RN license, professional malpractice insurance and consent of the department. Corequisite: NURS 410. (4 units)

**422. Nursing Research**

Introduction to the research process and analysis of studies relevant to nursing. Prerequisites: NURS 340, MATH 305 and consent of department. (4 units)

**425. Issues and Trends in Nursing and Health Care**

Evolution of professional nursing. Trends in health care and nursing. Impact of ethical, legal, political, and economic forces upon health care and nursing. Formerly NURS 350. Prerequisites: NURS 422 and consent of department. (2 units)

**500. Advanced Topics in Nursing**

Selected advanced nursing topics with specific focus within relatively narrow content areas. May be repeated for credit as topics change. Prerequisite: upper-division standing or consent of instructor. (4 units)

**502. Advanced Physical/Health Assessment of Children and Adolescents**

Seminar presents techniques related to physical and health assessment, in the school or community setting, including vision, scoliosis, and dental screenings. Emphasis is on the common morbidities and mortalities of these age groups and the interrelationship of the physical, emotional, and socioeconomic causes of health problems and illnesses. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: consent of department. (4 units)

**503. Principles of School Nursing Practice**

Role of the school nurse in relation to current accepted practice in school health programs as pertaining to the health needs of school children and their communities. Prerequisite: consent of department. (4 units)

**504. School Nursing Internship**

Supervised practice in public school nursing working with credentialed school nurses at the elementary and secondary level. Course taken at the completion of the program. Graded credit/no credit. Prerequisite: consent of department. (4 units)

**550. Informatics for Advanced Practice Nursing**

The nature and functions of nursing informatics to support advanced practice nursing and the delivery of care to communities. Prerequisite: consent of department. (4 units)

**595. Independent Study**

Research conducted under the direction of a faculty member. A total of six units in NURS 595 may be applied toward graduation. Prerequisites: NURS 422, senior standing, a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-6 units)

**597. Issues and Trends in Advanced Practice Nursing**

Examines major nursing issues, health care trends, health policies and their impact upon communities and aggregate populations from the perspective of advanced practice nursing. Explores issues such as allocation, poverty, homelessness, violence, substance abuse and changing disease patterns in relation to health care reform and the current social or political environment. Formerly NSCI 597. Prerequisite: graduate standing or consent of department. (4 units)

# NUTRITION AND FOOD SCIENCES

*Approved as a Didactic Program in Dietetics, by the American Dietetic Association (ADA)*

## Department of Health Science and Human Ecology

Jack Brown Hall, Room 263  
(909) 537-5340 <http://health.csusb.edu/>

### Bachelor of Science

Nutrition and Food Sciences

#### Minor

Nutrition and Food Sciences

**FACULTY:** Dorothy Chen-Maynard, Joe Hughes

The Bachelor of Science in Nutrition and Food Sciences is appropriate for students preparing for careers dealing with foods, nutrition, or dietetics. After graduation, students can apply to ADA accredited internship programs to become registered dietitians (RD). Also, graduates may work as dietary aides, and in many other food- and nutrition-related jobs.

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## B.S. IN NUTRITION AND FOOD SCIENCES

### Requirements (113 units)

**Total units required for graduation: 180-181**

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#### Requirements for the B.S. in Nutrition and Food Sciences:

**Note:** Certain required courses also apply in the university's general education program (See Page 66).

##### Lower-division requirements (50 units)

1. BIOL 220. Principles of Microbiology (5)
2. BIOL 223. Human Physiology and Anatomy I (5)
3. BIOL 224. Human Physiology and Anatomy II (5)
4. CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
5. CHEM 206. Fundamentals of Chemistry II: Organic Chemistry (5)
6. CHEM 207. Fundamentals of Chemistry III: Biochemistry (5)
7. HSCI 120. Health and Society: An Ecological Approach (5)
8. HSCI 225. Introduction to the Dietetic Profession (1)
9. HSCI 244. Introduction to Culinary Arts (2) or proof of competency to be determined by faculty advisor
10. HSCI 245. Introduction to Food Science (5)
11. HSCI 273. Software Applications in the Health Sciences (3)
12. Four units chosen from:
  - PSYC 100. Introduction to Psychology (4)
  - SOC 100. Introduction to Sociology (4)

##### Upper-division requirements (63 units)

1. HSCI 315. Statistics for the Health Sciences (4)
2. HSCI 345. Advanced Food Science (5)
3. HSCI 350. Principles of Nutrition (4)
4. HSCI 365. Nutrition Throughout the Life Cycle (4)
5. HSCI 384. Nutrition Assessment and Research (2)
6. HSCI 441. Nutritional Biochemistry and Metabolism (4)
7. HSCI 442. Advanced Human Nutrition (2)
8. HSCI 443. Medical Nutrition Therapy I (4)
9. HSCI 444. Medical Nutrition Therapy II (4)
10. HSCI 445. Community Nutrition (4)

11. HSCI 446. Senior Seminar in Dietetic Education (1)
12. HSCI 465. Foodservice Production and Procurement (5)
13. HSCI 467. Foodservice Systems Management (4)
14. Four units chosen from:
  - MGMT 302. Management and Organizational Behavior (4)
  - PSYC 302. Management and Organizational Behavior (4)
15. NSCI 306. Expository Writing for the Natural Sciences (4) or completion of challenge examination
16. Eight units chosen from:
  - HSCI 344. Perspectives in International Nutrition (4)
  - HSCI 367. Human Disease Mechanism (4)
  - HSCI 382. Nutrition for Health, Fitness, and Sports (4)
  - HSCI 385. Cultural Foods: Traditions and Trends (4)Other upper-division health science courses, except HSCI 342, which may be taken with prior approval from a faculty advisor.

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## MINOR IN NUTRITION AND FOOD SCIENCES

### Requirements (40 units)

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#### Requirements for a minor in Nutrition and Food Sciences:

##### Lower-division requirements (20 units)

1. CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
2. CHEM 206. Fundamentals of Chemistry II: Organic Chemistry (5)
3. CHEM 207. Fundamentals of Chemistry III: Biochemistry (5)
4. HSCI 245. Introduction to Food Science (5)

##### Upper-division requirements (20 units)

1. HSCI 350. Principles of Nutrition (4)
2. Sixteen units of upper-division nutrition and food courses to be chosen in consultation with an advisor.

**See Page 207 for descriptions of HSCI courses.**



# PHILOSOPHY

## Department of Philosophy

University Hall, Room 339  
(909) 537-5869 <http://philosophy.csusb.edu>

### Bachelor of Arts

Philosophy  
Law/Ethics/Politics Emphasis  
Philosophy of Religion/Religious Studies Emphasis

### Minor

Philosophical Logic  
Philosophy

**FACULTY:** Jill Buroker, Matthew Davidson, Susan Finsen, Beverly Gallo, Thomas Moody, Chris Naticchia (Chair), Darcy Otto, Tony Roy

Philosophy is excellent preparation for a career in law, business, government, journalism and a wide variety of professional areas; and it is excellent preparation for different sorts of graduate and professional study. Philosophy focuses on clear thinking and critical evaluation of ideas. Thus it is excellent training for anyone whose job requires broad perspectives and new and creative ideas. Philosophy does not provide training in specific job tasks; rather, it focuses on basic skills that will prepare you for the more challenging jobs you will encounter as your career advances.

Philosophy's range of application is particularly broad. Through philosophy one may think about and develop perspectives on topics as diverse as god, science, language, logic, truth, ethics, politics and law. Typically philosophy leaves aside the doing of the religion, science etc. and asks fundamental questions about the nature of and justification for the various perspectives.

### B.A. IN PHILOSOPHY

#### Requirements (57 units)

**Total units required for graduation: 180**

#### Requirements for the B.A. in Philosophy:

Upper-division requirements (57 units)

1. History of Philosophy (12 units)  
Twelve units as follows:  
PHIL 311. Ancient Philosophy (4)  
PHIL 313. History of Modern Philosophy: Knowledge and Reality (4)  
PHIL 314. History of Modern Philosophy: Ethics and Politics (4)
2. Logic (4 units)  
PHIL 300. Predicate Logic (4)
3. Metaphysics/Language (4 units)  
Four units chosen from:  
PHIL 380. Metaphysics (4)  
PHIL 387. Philosophy of Language (4)
4. Knowledge/Science (4 units)  
Four units chosen from:  
PHIL 385. Theory of Knowledge (4)  
PHIL 386. Philosophy of Science (4)
5. Value Theory (4 units)  
Four units chosen from:  
PHIL 350. Ethics (4)  
PHIL 361A. Social and Political Philosophy: Classical Political Theories (4)  
PHIL 361B. Social and Political Philosophy: Themes in Social and Political Philosophy (4)

6. Advanced Issues (4 units)  
Four units chosen from:  
PHIL 400. Advanced Issues in Logic (4)  
PHIL 410. Advanced Issues in History of Philosophy (4)  
PHIL 460. Advanced Issues in Value Theory (4)  
PHIL 472. Advanced Issues in Philosophy of Religion (4)  
PHIL 485. Advanced Issues in Metaphysics and Knowledge (4)
7. Senior Project (1 unit)  
Phil 516. Senior Project (1)
8. Electives (24 units)  
Twenty-four units chosen from philosophy courses with at most eight units at the 100- or 200-level; PHIL 200 must be included among these courses unless it is taken to satisfy the GE Critical Thinking (A4) requirement. No 100- or 200-level course used to satisfy a General Education requirement will be included among courses which count toward the major. No course counts in more than one category of the major; however, for courses such as the Advanced Issues courses which can be repeated with different topics, the different topics may apply in different categories.

#### Law/Ethics/Politics Emphasis

Students pursuing the Law/Ethics/Politics Emphasis must substitute the following in categories 6 and 8 above:

6. Advanced Issues (4 units)  
PHIL 460. Advanced Issues in Value Theory (4)
8. Electives (24 units)  
Twenty-four units chosen from philosophy courses with at most eight units at the 100- or 200-level; PHIL 200 must be included among these courses unless it is taken to satisfy the GE Critical Thinking (A4) requirement. In addition, courses in this category must include eight units chosen from:  
PHIL 350. Ethics (4)  
PHIL 351. Topics in Moral and Political Philosophy (4)  
PHIL 359. Philosophy and Economics (4)  
PHIL 361A. Social and Political Philosophy: Classical Political Theories (4)  
PHIL 361B. Social and Political Philosophy: Themes in Social and Political Philosophy (4)  
PHIL 362A. Philosophy of Law: The Concept of Law (4)  
PHIL 362B. Philosophy of Law: Morality and the Law (4)  
PHIL 362C. Philosophy of Law: Rights and the Law (4)  
PHIL 460. Advanced Issues in Value Theory (4)  
Four units chosen from:  
PHIL 353. Topics in Applied Ethics (4)  
PHIL 355. Contemporary Ethical Issues (4)  
No 100- or 200-level course used to satisfy a General Education requirement will be included among courses which count toward the major. No course counts in more than one category of the major; however, for courses such as PHIL 460 which can be repeated with different topics, the different topics may apply in different categories

#### Philosophy of Religion/Religious Studies Emphasis

Students pursuing the Philosophy of Religion/Religious Studies Emphasis must substitute the following in categories 6 and 8 above:

6. Advanced Issues (4 units)  
PHIL 472. Advanced Issues in Philosophy of Religion (4)
8. Electives (24 units)  
Twenty-four units chosen from philosophy courses with at most eight units at the 100- or 200-level; PHIL 200 must be included among these courses unless it is taken to satisfy the GE Critical Thinking (A4) requirement. In addition courses in this category must include 12 units chosen from:  
PHIL 312. Medieval Philosophy (4)  
PHIL 372. Philosophy of Religion

## 288 / Philosophy

PHIL 375. Non-Western Philosophy (4)  
 PHIL 472. Advanced Issues in Philosophy of Religion (4)  
 No 100- or 200-level course used to satisfy a General Education requirement will be included among courses which count toward the major. No course counts in more than one category of the major; however, for courses such as PHIL 472 which can be repeated with different topics, the different topics may apply in different categories.

**Critical Thinking:** Majors need not satisfy the GE Critical Thinking Requirement with PHIL 200; but students who fulfill the requirement with PHIL 200 thereby satisfy the prerequisite for PHIL 300.

**Course Offerings:** The Department of Philosophy offers courses required for the major on a regular basis; consult department office or website for the current schedule.

**Electives:** A major or minor in philosophy is an exceptionally flexible tool. All students should consult with an advisor in planning their course of study. Students interested in law or religion should consider elective courses from the emphases in Law/Ethics/Politics and Philosophy of Religion/Religious Studies. And there are ways to organize electives around additional interests as well, for example:

**Graduate Study in Philosophy:** Students planning to apply for graduate programs in philosophy should complete at least eight additional units of upper-division philosophy, and emphasize in electives additional courses from the core areas 1 through 6 above. Students may also need to pursue proficiency in one foreign language especially French, German, Latin, or Greek.

**Medical/Helping Professions:** Students who will pursue careers in medical and helping professions are encouraged to include among their electives at least three courses from among PHIL 191, 350, 353, 355 and 460.

**Business or Economics:** Students who will pursue careers in business or economics are encouraged to include among their electives at least three courses from among PHIL 191, 350, 359, and 460.

**Cognitive Science/Artificial Intelligence:** Majors who will pursue careers in these and related fields are encouraged to include among their electives at least three courses from among PHIL 300, 384A, 384B, 400 and 485.

## MINOR IN PHILOSOPHICAL LOGIC

### Requirements (24 units)

#### Requirements for a minor in Philosophical Logic:

Core requirements (12 units)

1. PHIL 200. Critical Thinking Through Symbolic Logic (4)
2. PHIL 300. Predicate Logic (4)
3. PHIL 382. Philosophy of Logic and Mathematics (4)

Electives (12 units)

1. Twelve units chosen from:
  - PHIL 306. Inductive Logic (4)
  - PHIL 308. Alternative Logics (4)
  - PHIL 400. Advanced Issues in Logic: Introductory Metalogic (4)
  - PHIL 400. Advanced Issues in Logic: Incompleteness and Computability (4)

The Minor in Philosophical Logic is open to students in any major. However, except for PHIL 200 and 300, courses taken for credit in the Minor in Philosophical Logic do not count toward satisfaction of the Philosophy major or minor.

## MINOR IN PHILOSOPHY

### Requirements (32 units)

#### Requirements for a minor in Philosophy:

Upper-division requirements (32 units)

1. History of Philosophy  
 Eight units chosen from:
  - PHIL 311. Ancient Philosophy (4)
  - PHIL 313. History of Modern Philosophy: Knowledge and Reality (4)
  - PHIL 314. History of Modern Philosophy: Ethics and Politics (4)
  - PHIL 410. Advanced Issues in History of Philosophy (4)
2. Metaphysics/Knowledge  
 Eight units chosen from:
  - PHIL 380. Metaphysics (4)
  - PHIL 385. Theory of Knowledge (4)
  - PHIL 386. Philosophy of Science (4)
  - PHIL 387. Philosophy of Language (4)
  - PHIL 485. Advanced Issues in Metaphysics and Knowledge (4)
3. Value theory  
 Four units chosen from:
  - PHIL 350. Ethics (4)
  - PHIL 361A. Social and Political Philosophy: Classical Political Theories (4)
  - PHIL 361B. Social and Political Philosophy: Themes in Social and Political Philosophy (4)
  - PHIL 460. Advanced Issues in Value Theory (4)
4. Twelve units of electives chosen from philosophy courses; with at most four elective units at the 100- or 200-level; PHIL 200 must be included among these courses unless taken to satisfy the GE Critical Thinking (A4) requirement.  
 No 100- or 200-level course used to satisfy a General Education requirement will be included among courses which count toward the minor. No course counts in more than one category of the minor; however, for courses such as the Advanced Issues courses which can be repeated with different topics, the different topics may apply in different categories.

## DEPARTMENTAL HONORS

To attain departmental honors, a student must write a successful honors thesis under the guidance of a faculty committee. To qualify for the honors program a student must have:

1. an overall grade point average of 3.0 ("B");
2. a grade point average of 3.5 in philosophy courses;
3. at least five philosophy courses must have been taken at California State University, San Bernardino, one of which may be lower-division, not counting courses satisfying the general education requirements.

Application for the honors program must be made in writing to the department three quarters before graduation.

## COURSE OFFERINGS IN

### PHILOSOPHY (PHIL)

#### Lower Division

#### 101. Moral Choices in Life

Fundamentals of ethical reasoning. Introduction to moral theories and methods of moral decision making. Focus on such issues as ethics in the workplace, responsible citizenship, euthanasia, and responsibilities to the homeless, the environment and animals. (GE=E2) (2 units)

**105. Critical Thinking Through Argument Analysis**

Analysis of various kinds of reasoning employed in everyday life and in more specialized contexts, to develop each student's skill in understanding and using carefully constructed arguments. Illustrations will include materials drawn from contemporary issues. (GE=A4) (4 units)

**190. Introduction to Philosophical Issues**

An introduction to philosophical thinking by means of reading, discussing and writing about selected philosophical works. Students are encouraged to develop their own philosophical views in a critical exchange with the views of the philosophers studied. Prerequisite: ENG 101 or equivalent. (GE=C4) (PHIL 190=CAN PHIL 2) (4 units)

**191. Introduction to Ethics**

An introduction to ethics and moral theory. Philosophical approaches to questions of right and wrong, duty and obligation, good and evil. Deals with both individual morality and social morality. Prerequisite: ENG 101 or equivalent. (GE=C4) (4 units)

**192. Introduction to Philosophy of Religion**

Introductory treatment of philosophical issues raised by religion and religious belief; discussion of issues such as relations between faith, belief and knowledge, arguments for the existence of god, the problem of evil, and immortality. Prerequisite: ENG 101 or equivalent. (GE=C4) (4 units)

**193. Introduction to Eastern Philosophy**

Introduction to the ways in which Buddhism, Hinduism, Taoism and Confucianism view human life and reality. Prerequisite: ENG 101 or equivalent. (GE=C4) (4 units)

**194. Introduction to Knowledge and Reality**

Inquiry into philosophical presuppositions underlying common sense and scientific views of knowledge and reality. Possible topics include: Was the universe created? Is the world as it appears to us? Are humans merely complex machines or do they have souls? How do we know what we know? Prerequisite: ENG 101 or equivalent. (GE=C4) (4 units)

**200. Critical Thinking Through Symbolic Logic**

Introduction to logic and its application to everyday reasoning. Emphasis on formal methods and modern symbolic logic. Formerly PHIL 205. (GE=A4) (4 units)

**206. Critical and Analytic Reasoning**

Review of logical notions combinatorial methods introduced in many critical reasoning courses (e.g. PHIL 200); extension of those notions and methods to increasingly complex problems, including problems of the sort encountered in analytic portions of the GRE and LSAT exams. Formerly PHIL 305. Prerequisites: satisfaction of the General Education Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

**Upper Division****300. Predicate Logic**

Introduction to the standard predicate calculus. Some metatheory. This course requires some basic mathematical or logical background. Prerequisite: PHIL 200 or consent of instructor. (4 units)

**306. Inductive Logic**

Principles of reasoning underlying the scientific method. Topics include hypothesis formation and testing, foundations and philosophical interpretation of probability and decision theory. Formerly a topic under PHIL 400. Prerequisites: PHIL 200 and satisfaction of the GE Philosophy (C4) requirement. (4 units)

**308. Alternative Logics**

Formal systems possibly including modal logics, conditional logics, many-valued logics and relevant logics alternative to classical symbolic logic. Formerly a topic under PHIL 400. Prerequisite: PHIL 200 or consent of instructor. (4 units)

**311. Ancient Philosophy**

Introduction to the origin of Western philosophy, as represented in the works of the Pre-Socratics, Plato, Aristotle, the Stoics, Epicureans, Skeptics and Mystics. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

**312. Medieval Philosophy**

Study of philosophical thought from the Neoplatonists up to Descartes. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

**313. History of Modern Philosophy: Knowledge and Reality**

Major philosophical developments in Western philosophy from Descartes through Kant, focusing on the nature of knowledge and reality. Formerly PHIL 318. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

**314. History of Modern Philosophy: Ethics and Politics**

Major philosophical developments in Western philosophy from Machiavelli to Mill, focusing on ethics and political theory. Formerly PHIL 319. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

**315. History of Modern Philosophy: Knowledge and Reality II**

Major philosophical developments in the Modern period of Western philosophy, focusing on the nature of knowledge and reality. A continuation of PHIL 313 featuring figures such as Locke, Leibniz and Berkeley. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

**320. Philosophy of Education**

Inquiry into the nature of education and its role in human life, and the role of individual and social values. Readings from classical and contemporary philosophers. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

**350. Ethics**

The nature of the meaningful life and its relation to concepts of right and wrong explored through various moral theories. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

**351. Topics in Moral and Political Philosophy**

Consideration of select problems in moral and political theory. May be repeated for credit as topics change. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

### 353. Topics in Applied Ethics

Study of different issues in applied ethics and political theory such as environmental ethics, business ethics, global ethics, and international justice, international human rights, ethics in the helping professions, and philosophical economics. May be repeated for credit as topics change. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

### 355. Contemporary Ethical Issues

An examination of contemporary moral issues such as abortion rights, capital punishment, animal treatment, environmental protection, business ethics, and military intervention. Specific topics will be determined by cases that universities nationwide are examining during the year the course is offered. Students who take this course will become eligible to represent CSUSB in state and national academic competitions. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

### 359. Philosophy and Economics

Study of issues at the intersection of economics and moral and political philosophy, e.g., classic accounts of the nature of value, the nature of justice, the nature of rationality, the measurability of human well-being. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

### 361. Social and Political Philosophy

An examination of major perspectives on how societies should be organized. Study of central issues such as legitimacy of government, and rights versus obligations; or of major concepts such as justice, equality, rights, class, patriarchy and power. May be repeated for credit as topics change. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements.

- A. Classical political theories. (4 units)
- B. Themes in social and political philosophy. (4 units)

### 362. Philosophy of Law

A study of philosophical problems raised by the law, such as the nature and validity of the law, and concepts of justice; the relation between law and morality; and how rights are or ought to be reflected in the law. May be repeated for credit as topics change. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements.

- A. The Concept of Law (4 units)
- B. Morality and the Law (4 units)
- C. Rights and the Law (4 units)

### 364. Philosophy of Race and Ethnicity

Study of theories of equality and justice as they apply to justice, affirmative action, multiculturalism, group differences and the intersections of race with gender and class. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (GE=G2) (4 units)

### 367. Gender and Philosophy

Philosophical theories of male and female nature, their implications concerning equality and rights, the nature of the family, and social roles of men and women. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (GE=G2) (4 units)

### 372. Philosophy of Religion

Problems concerned with the existence and attributes of God or gods, the significance of religious experience and its varieties, and the rationality of faith. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

### 375. Non-Western Philosophy

Study of various philosophical issues that arise within non-Western world views such as Buddhism, Hinduism, Taoism, and Islam. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

### 380. Metaphysics

Problems relating to existence. Includes issues such as realism and anti-realism, the nature of modal truth, free-will and determinism, the mind-body problem, and the nature of identity. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

### 382. Philosophy of Logic and Mathematics

Philosophical issues raised by logic and mathematics, such as the nature of logical and mathematical truth, the relations between logic, mathematics and the world, and justification for logical and mathematical systems. Formerly a topic under PHIL 485. Prerequisites: MATH 110 or equivalent, PHIL 200, and satisfaction of the Philosophy (C4) requirements. (4 units)

### 384. Philosophy of Mind

Various theories about the nature of the mind and the relation of the mind to the body and behavior. Focus will be on different approaches to psychology (behaviorism, functionalism, etc.) or on the consequences of theories of the mind for the question of whether computers can think. May be repeated for credit as topics change. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements.

- A. Philosophical Psychology (4 units)
- B. Minds and Machines (4 units)

### 385. Theory of Knowledge

Problems concerning acquiring and justifying knowledge, including the roles of sense perception and reason, the distinction between knowledge and belief, the nature of evidence, and the concepts of truth and certainty. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

### 386. Philosophy of Science

Foundations of science, including the nature of scientific methodology, explanation, concept formation, and the structure of theories, using case studies from the natural sciences and social sciences. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

### 387. Philosophy of Language

Inquiry into the syntactic, semantic and pragmatic dimensions of language, focusing on different theories of these components, and the philosophical implications of these theories. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

### 390. Topics in Philosophy

Study of a specially-selected figure, movement, problem, or theory in philosophy. May be repeated for credit as topics change. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

### 400. Advanced Issues in Logic

Discussion of issues such as axiomatic logic, proofs of soundness and completeness, multi-valued logics, modal logics and/or other alternative logics. May be repeated for credit as topics change. Prerequisite: satisfaction of departmental skills assessment test and PHIL 300 or consent of instructor. (4 units)



**410. Advanced Issues in History of Philosophy**

An intensive study of one or more philosophical figures. May be repeated for credit as topics change. Prerequisites: at least two 300-level philosophy courses, satisfaction of the GE upper-division writing requirement, and satisfaction of skills assessment test. (4 units)

**460. Advanced Issues in Value Theory**

Intensive study of topics in ethics, social philosophy and/or political philosophy. May be repeated for credit as topics change. Prerequisites: at least two 300-level philosophy courses, satisfaction of the GE upper-division writing requirement, and satisfaction of skills assessment test. (4 units)

**472. Advanced Issues in Philosophy of Religion**

Intensive study of topics in philosophy of religion. May be repeated for credit as topics change. Prerequisites: at least two 300-level philosophy courses, satisfaction of the GE upper-division writing requirement, and satisfaction of skills assessment test. (4 units)

**485. Advanced Issues in Metaphysics and Knowledge**

Intensive study of topics in metaphysics, philosophy of language, theory of knowledge and/or philosophy of science. May be repeated for credit as topics change. Prerequisites: at least two 300-level philosophy courses, satisfaction of the GE upper-division writing requirement, and satisfaction of skills assessment test. (4 units)

**490. Philosophical Topics**

Study of a specially selected figure, movement, problem or theory in philosophy. May be repeated for credit as topics change. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements; and satisfaction of the departmental skills assessment. (4 units)

**516. Senior Project**

Preparation and submission of a portfolio of writing representing successful work in the philosophy major, accompanied by a reflective essay showing the extent to which the student has satisfied the objectives and goals of the major. Prerequisite: completion of 135 units, including 36 units of the philosophy major. Graded credit/no credit. (1 unit)

**575. Internship in Philosophy**

Supervised intensive work of an applied nature that requires advanced skills in philosophy. A total of eight units may be applied toward graduation; a total of four units may be applied to the major. Generally assumes thirty hours of work/study per unit of credit. Graded credit/no credit. Prerequisite: consent of instructor. (2-5 units)

**595. Independent Study**

Intensive study of topics not offered in other existing philosophy courses. No more than four units of PHIL 595 can apply towards the philosophy major without departmental approval. Prerequisites: a minimum grade point average of 3.0, consent of instructor and departmental approval of a project submitted on a standard application filed no later than the end of the first week of classes. (2-4 units)

# PHYSICS

## Department of Physics

Physical Sciences Building, Room 119  
(909) 537-5397 <http://physics.csusb.edu/>

### Bachelor of Arts

Physics

### Bachelor of Science

Physics

Applied Physics

Computer Engineering (See Page 132.)

### Minor

Physics

Applied Physics

**FACULTY:** Steven Barnes, Leo Connolly, Paul Dixon,  
Karen Kolehmainen, Susan Lederer, Paul Renteln (Chair),  
Javier Torner, Timothy Usher, Laura Woodney

Traditionally, physics majors have gone on to graduate work in physics, high school teaching, or employment in industrial or government laboratories. Other opportunities which have recently become interesting for physics graduates include atmospheric physics (including air pollution studies), geophysics, radiation safety, oceanography, astrophysics, technical administration, biophysics, computer science and medical instrumentation development.

The program for a bachelor of arts degree in physics provides basic knowledge in the main subject areas of physics as well as an opportunity for students to elect a considerable number of courses in other disciplines. This is a good choice for students planning careers in high school teaching. The bachelor of science program includes additional course work in physics and related fields which further prepares a student for employment or graduate work.

The Applied Physics option is designed to prepare students for direct employment in high-technology firms upon graduation. For traditional design tasks, high-technology firms typically hire applied physicists with a flexible and creative technical ability who can address a wide range of technical problems and develop an experimental system to attack problems. A solid understanding of theoretical physics across the curriculum is required and the ability to design, interface and control experimental apparatus. Because the tasks that applied physicists perform in the industrial environment are primarily experimental in nature, this option includes a number of laboratory courses in addition to the theory curriculum core: PHYS 150. Introductory Electronics; CSCI 201. Computer Science I; PHYS 350. Data Acquisition and Control; PHYS 352. Advanced Electronics; and PHYS 430. Advanced Physics Laboratory. The courses in the applied physics option prepare students to function effectively in the computer-based experimental environment that they face in research and development, testing or process control.

**Pre-engineering** - The campus provides a pre-engineering program that enables students to complete the first two years of courses generic to engineering. Students may then transfer to an accredited engineering program of their choice. The following courses have been recommended as appropriate transfer courses: CHEM 215, 216, MATH 211, 212, 213, 251, 252, PHYS 221, 222, 223, 234, 235 and selected courses in computer science and general education.

**Computer Engineering** - The Departments of Physics and Computer Science and Engineering administer the Computer Engineering program. See Page 130.

Students considering a physics or pre-engineering major should call the department office for advising.

## B.A. IN PHYSICS

### Requirements (89 units)

### Total units required for graduation: 180

### Requirements for the B.A. in Physics:

#### Lower-division requirements (53 units)

1. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
2. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
3. MATH 211. Basic Concepts of Calculus (4)
4. MATH 212. Calculus II (4)
5. MATH 213. Calculus III (4)
6. MATH 251. Multivariable Calculus I (4)
7. MATH 252. Multivariable Calculus II (4)
8. PHYS 221. General Physics I (5)
9. PHYS 222. General Physics II (5)
10. PHYS 223. General Physics III (5)
11. PHYS 224. General Physics IV (3)
12. PHYS 225. General Physics V (3)

#### Upper-division requirements (28 units)

1. MATH 331. Linear Algebra (4)
2. PHYS 306. Classical Mechanics I (4)
3. PHYS 313. Electrodynamics I (4)
4. PHYS 324. Statistical and Thermal Physics (4)
5. PHYS 373. Mathematical Methods of Physics I (4)
4. PHYS 421. Quantum Mechanics I (4)
7. PHYS 430. Advanced Physics Laboratory (4)

#### Elective course work (8 units)

1. Eight units chosen from upper-division physics courses selected with the approval of the department:
  - PHYS 307. Classical Mechanics II (4)
  - PHYS 314. Electrodynamics II (4)
  - PHYS 315. Introduction to Modern Optics (4)
  - PHYS 370. Introduction to Astrophysics (4)
  - PHYS 422. Quantum Mechanics II (4)
  - PHYS 450. Introduction to Solid State Physics (4)
  - PHYS 461. Introduction to Nuclear Physics (4)
  - PHYS 463. Introduction to Elementary Particle Physics (4)
  - PHYS 473. Mathematical Methods of Physics II (4)
  - PHYS 480A. Topics in Classical Physics: Mechanics (4)
  - PHYS 480B. Topics in Classical Physics: Electrodynamics (4)
  - PHYS 485. Topics in Contemporary Physics (1-4)
  - PHYS 573. Mathematical Methods of Physics III (4)
  - PHYS 590. Physics Seminar (1)
  - PHYS 595. Independent Study (1-6)

## B.S. IN PHYSICS

### Requirements (109 units)

### Total units required for graduation: 182

### Requirements for the B.S. in Physics:

#### Lower-division requirements (53 units)

1. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
2. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
3. MATH 211. Basic Concepts of Calculus (4)
4. MATH 212. Calculus II (4)
5. MATH 213. Calculus III (4)
6. MATH 251. Multivariable Calculus I (4)
7. MATH 252. Multivariable Calculus II (4)

8. PHYS 221. General Physics I (5)
9. PHYS 222. General Physics II (5)
10. PHYS 223. General Physics III (5)
11. PHYS 224. General Physics IV (3)
12. PHYS 225. General Physics V (3)

## Upper-division requirements (44 units)

1. MATH 331. Linear Algebra (4)
2. PHYS 306. Classical Mechanics I (4)
3. PHYS 307. Classical Mechanics II (4)
4. PHYS 313. Electrodynamics I (4)
5. PHYS 314. Electrodynamics II (4)
6. PHYS 324. Statistical and Thermal Physics (4)
7. PHYS 373. Mathematical Methods of Physics I (4)
8. PHYS 421. Quantum Mechanics I (4)
9. PHYS 422. Quantum Mechanics II (4)
10. PHYS 430. Advanced Physics Laboratory (4)
11. PHYS 473. Mathematical Methods of Physics II (4)

## Electives (12 units)

1. Eight units chosen from upper-division physics courses selected with the approval of the department:
  - PHYS 315. Introduction to Modern Optics (4)
  - PHYS 370. Introduction to Astrophysics (4)
  - PHYS 450. Introduction to Solid State Physics (4)
  - PHYS 461. Introduction to Nuclear Physics (4)
  - PHYS 463. Introduction to Elementary Particle Physics (4)
  - PHYS 480A. Topics in Classical Physics: Mechanics (4)
  - PHYS 480B. Topics in Classical Physics: Electrodynamics (4)
  - PHYS 485. Topics in Contemporary Physics (1-4)
  - PHYS 573. Mathematical Methods of Physics III (4)
  - PHYS 590. Physics Seminar (1)
  - PHYS 595. Independent Study (1-6)
2. Four units of computer science course work at the 200-level or above selected with the approval of the Physics Department.

**B.S. IN PHYSICS - APPLIED PHYSICS OPTION****Requirements (110 units)****Total units required for graduation: 183****Requirements for the B.S. in Physics - Applied Physics Option:**

## Lower-division requirements (62 units)

1. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
2. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
3. CSCI 201. Computer Science I (4)
4. MATH 211. Basic Concepts of Calculus (4)
5. MATH 212. Calculus II (4)
6. MATH 213. Calculus III (4)
7. MATH 251. Multivariable Calculus I (4)
8. MATH 252. Multivariable Calculus II (4)
9. PHYS 150. Introductory Electronics (5)
10. PHYS 221. General Physics I (5)
11. PHYS 222. General Physics II (5)
12. PHYS 223. General Physics III (5)
13. PHYS 224. General Physics IV (3)
14. PHYS 225. General Physics V (3)

## Upper-division requirements (44 units)

1. MATH 331. Linear Algebra (4)
2. PHYS 306. Classical Mechanics I (4)
3. PHYS 313. Electrodynamics I (4)
4. PHYS 314. Electrodynamics II (4)
5. PHYS 324. Statistical and Thermal Physics (4)

6. PHYS 350. Data Acquisition and Control (4)
7. PHYS 352. Advanced Electronics (4)
8. PHYS 373. Mathematical Methods of Physics I (4)
9. PHYS 421. Quantum Mechanics I (4)
10. PHYS 430. Advanced Physics Laboratory (4)
11. PHYS 450. Introduction to Solid State Physics (4)

## Electives (4 units)

1. Four units chosen from upper-division physics course work selected with the approval of the department:
  - PHYS 307. Classical Mechanics II (4)
  - PHYS 315. Introduction to Modern Optics (4)
  - PHYS 370. Introduction to Astrophysics (4)
  - PHYS 422. Quantum Mechanics II (4)
  - PHYS 461. Introduction to Nuclear Physics (4)
  - PHYS 463. Introduction to Elementary Particle Physics (4)
  - PHYS 473. Mathematical Methods of Physics II (4)
  - PHYS 480A. Topics in Classical Physics: Mechanics (4)
  - PHYS 480B. Topics in Classical Physics: Electrodynamics (4)
  - PHYS 485. Topics in Contemporary Physics (1-4)
  - PHYS 573. Mathematical Methods of Physics III (4)
  - PHYS 590. Physics Seminar (1)
  - PHYS 595. Independent Study (1-6)

**MINOR IN PHYSICS****Requirements (61 units)****Requirements for a minor in Physics:**

## Lower-division requirements (41 units)

1. MATH 211. Basic Concepts of Calculus (4)
2. MATH 212. Calculus II (4)
3. MATH 213. Calculus III (4)
4. MATH 251. Multivariable Calculus I (4)
5. MATH 252. Multivariable Calculus II (4)
6. PHYS 221. General Physics I (5)
7. PHYS 222. General Physics II (5)
8. PHYS 223. General Physics III (5)
9. PHYS 224. General Physics IV (3)
10. PHYS 225. General Physics V (3)

## Upper-division requirements (20 units)

1. PHYS 306. Classical Mechanics I (4)
2. PHYS 313. Electrodynamics I (4)
3. PHYS 324. Statistical and Thermal Physics (4)
4. PHYS 373. Mathematical Methods of Physics I (4)
5. PHYS 421. Quantum Mechanics I (4)

**MINOR IN APPLIED PHYSICS****Requirements (54 units)****Requirements for a minor in Applied Physics:**

## Lower-division requirements (42 units)

1. CSCI 201. Computer Science I (4)
2. MATH 211. Basic Concepts of Calculus (4)
3. MATH 212. Calculus II (4)
4. MATH 251. Multivariable Calculus I (4)
5. PHYS 150. Introductory Electronics (5)
6. PHYS 221. General Physics I (5)
7. PHYS 222. General Physics II (5)
8. PHYS 223. General Physics III (5)
9. PHYS 224. General Physics IV (3)
10. PHYS 225. General Physics V (3)

## Upper-division requirements (12 units)

1. PHYS 350. Data Acquisition and Control (4)
2. PHYS 352. Advanced Electronics (4)

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3. PHYS 373. Mathematical Methods of Physics I (4)  
**Note:** The MATH 252 prerequisite for PHYS 373 will be waived for the applied physics minor.

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**DEPARTMENTAL HONORS**

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- To be awarded departmental honors in physics a student must:
1. Achieve at least a 3.5 minimum grade point average in courses required for the major taken at California State University, San Bernardino and at least a 3.0 grade point average overall;
  2. Write a thesis on a topic approved by the Department of Physics and the faculty member who will serve as project director;
  3. One of the following: have the thesis approved by a committee consisting of three faculty members from the Department of Physics, one of whom is the project director, or have the thesis accepted for publication by a peer-reviewed scientific journal.

Application for honors and approval of the thesis topic must occur at least two full quarters before graduation (which will ordinarily be the Fall quarter of the senior year.) The thesis must be submitted and the thesis defense (or journal acceptance) successfully completed by the quarter of graduation according to the timeline on file in the department office

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**COURSE OFFERINGS IN  
PHYSICS (PHYS)**

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**Lower Division****100. Physics in the Modern World**

Examination of physics and its contemporary use, including topics of: mechanics, electricity, optics, sound, heat and radioactivity. This course is intended for students with little background in science. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: completion of the general education requirement in mathematics, category B1. (GE=B3) (5 units)

**121. Basic Concepts of Physics I**

First course of a three-course sequence surveying the basic concepts of physics, primarily for students entering fields relating to the biological sciences. This course will cover the basic principles of mechanics. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: MATH 192 or 211, with a grade of "C-" or better. (GE=B3) (5 units)

**122. Basic Concepts of Physics II**

Continuation of PHYS 121. Topics include electricity, electric circuits and magnetism. Three hours lecture and three hours laboratory. Materials fee required. Prerequisite: PHYS 121. (4 units)

**123. Basic Concepts of Physics III**

Continuation of PHYS 122. Topics include optics, waves and modern physics. Three hours lecture and three hours laboratory. Materials fee required. Prerequisite: PHYS 122. (4 units)

**150. Introductory Electronics**

Introduces electronics for the sciences and engineering. Assumes no experience in electronics and can be taken prior to introductory physics. Focus is on analog electronics: practical circuits, passive and active circuit elements, signal conditioning, test and measurement skills, and a brief introduction to digital electronics. Four hours lecture and three hours laboratory. Materials fee required. Prerequisites: a knowledge of trigonometry and exponential functions. (5 units)

**152. Introduction to Engineering Design**

Introduction to the principles, techniques, and tools of engineering design. Six hours laboratory. Materials fee required. Prerequisites: MATH 120 or a satisfactory score on the Entry Level Mathematics examination, and PHYS 150. (2 units)

**221. General Physics I**

First course of a five-course sequence in introductory physics for scientists and engineers. This sequence is intended for students with a strong background in mathematics and the sciences. Mechanics. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: MATH 211. Prerequisite or corequisite: MATH 212. (GE=B3) (PHYS 221=CAN PHYS 8) (PHYS 221+222+223+224+225=CAN PHYS SEQ C) (5 units)

**222. General Physics II**

Second course in a five-course sequence in introductory physics for scientists and engineers. Electromagnetism. Four hours lecture and three hours laboratory. Materials fee required. Prerequisites: PHYS 221, MATH 212. Recommended: MATH 213. (PHYS 222=CAN PHYS 12) (PHYS 221+222+223+224+225= CAN PHYS SEQ C) (5 units)

**223. General Physics III**

Third course of a five-course sequence in introductory physics for scientists and engineers. Waves and optics. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: PHYS 222. (PHYS 221+222+223+224+225= CAN PHYS SEQ C) (5 units)

**224. General Physics IV**

Fourth course of a five-course sequence in introductory physics for scientists and engineers. Special relativity, kinetic theory and thermodynamics. Three hours lecture. Prerequisite or corequisite: PHYS 223 or consent of instructor. (PHYS 221+222+223+224+225=CAN PHYS SEQ C) (3 units)

**225. General Physics V**

Fifth course of a five-course sequence in introductory physics for scientists and engineers. Modern physics. Three hours lecture. Formerly PHYS 228. Prerequisite: PHYS 224 or consent of instructor. (PHYS 221+222+223+224+225=CAN PHYS SEQ C) (3 units)

**234. Vector Statics**

Two and three dimensional equilibria of frames, machines, and trusses using vector algebra; friction; principles of moments, moments of inertia for areas and masses, centroids and centers of gravity. Prerequisite: PHYS 221. Prerequisite or corequisite: MATH 213. (4 units)

**235. Vector Dynamics**

Vector treatment of absolute and relative motion of particles and rigid bodies in translating and rotating reference frames. Newton's law of motion, work-energy, impulse-momentum. Prerequisite: PHYS 234 with a grade of "C" or better. Prerequisite or corequisite: MATH 251. (4 units)

**295. Special Projects in Physics**

Individual investigation, research, study or survey of selected problems. May be repeated for credit. Prerequisite: consent of instructor. (1-2 units)

**Upper Division****303. Astronomy for Educators**

An introductory course in the modern description of our planetary system, stars, galaxies, and models of the universe followed by basic principles and ideas in space science. Three hours lecture. (3 units)

**304. Physics in the Classroom**

Basic concepts of physics as related to the elementary and middle school classroom. Concepts include mechanics, electricity and magnetism, optics, thermodynamics, and modern physics. One hour lecture and three hours laboratory. Materials fee required. Prerequisite: one college level course in chemistry or earth science. (2 units)



**305. Demonstration Laboratory in Physics**

A demonstration laboratory exploring the basic principles of physics through individual student demonstration. Three hours laboratory. Materials fee required. Prerequisite or corequisite: PHYS 304. (1 unit)

**306. Classical Mechanics I**

A continuing study of dynamics with an introduction to advanced formulations. Four hours lecture. Prerequisites: PHYS 225 and 373. (4 units)

**307. Classical Mechanics II**

A continuation of PHYS 306 with emphasis on systems of particles, and rigid bodies. Four hours lecture. Formerly PHYS 406. Prerequisite: PHYS 306. (4 units)

**313. Electrodynamics I**

Derivation and applications of Maxwell's equations. Four hours lecture. Prerequisites: PHYS 225 and 373. (4 units)

**314. Electrodynamics II**

A continuation of PHYS 313 with advanced applications of Maxwell's equations and electromagnetic waves. Four hours lecture. Formerly PHYS 414. Prerequisite: PHYS 313. (4 units)

**315. Introduction to Modern Optics**

An introduction to geometrical optics, physical optics and lasers. Four hours lecture. Prerequisite: PHYS 313. (4 units)

**318. Materials Science and Engineering**

Fundamental materials science concepts with applications to include: structure, electrical and thermal properties, phase diagrams, interfaces, and band structure. Four hours lecture. Graded A,B,C/no credit. Prerequisites: CHEM 215, MATH 252 and PHYS 224. (4 units)

**324. Statistical and Thermal Physics**

Basics of equilibrium thermodynamics including statistical description of physical systems, entropy and temperature, classical and quantum statistical ensembles, thermodynamics, and selected applications. Four hours lecture. Prerequisites: MATH 252 and PHYS 225. (4 units)

**350. Data Acquisition and Control**

An introduction to computer-based data acquisition, control and analysis. Topics include instrument control, graphical programming, algorithm development, feedback control algorithms, and computer-based data analysis. Three hours lecture and three hours laboratory. Materials fee required. Prerequisites: CSCI 201, PHYS 150 and 222. (4 units)

**352. Advanced Electronics**

Advanced analog electronics techniques for science and engineering. Topics include computer-aided circuit design, high frequency techniques, modular circuit design, and computer-experiment interfacing. Three hours lecture and three hours laboratory. Materials fee required. Prerequisites: PHYS 350 and 373. (4 units)

**370. Introduction to Astrophysics**

Basic principles of stellar structure and evolution, galactic structure, extragalactic astronomy and cosmology. Four hours lecture. Prerequisites: PHYS 225 and 373. (4 units)

**373. Mathematical Methods of Physics I**

Vector calculus, Fourier analysis, and ordinary differential equations. Emphasis on techniques applicable to the problems of physics. Prerequisites: PHYS 222 and MATH 252. MATH 331 is recommended. (4 units)

**421. Quantum Mechanics I**

Introduction to quantum mechanics. Topics include the origins of quantum theory, angular momentum, the Dirac formalism, 2-level systems and the harmonic oscillator. Four hours lecture. Formerly PHYS 322. Prerequisites: MATH 331, PHYS 225, 306, and 373. (4 units)

**422. Quantum Mechanics II**

Continued study of the principles of quantum mechanics introduced in PHYS 421. Topics include the axiomatic formulation of quantum mechanics, spin and orbital angular momentum, the Schrodinger equation in three dimensions, approximation methods, and scattering. Prerequisites: PHYS 306, 314, and 421. (4 units)

**430. Advanced Physics Laboratory**

Selected advanced experiments appropriate to a student's previous preparation. May be repeated for credit. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: PHYS 313. Recommended: PHYS 421. (4 units)

**450. Introduction to Solid State Physics**

Basic concepts of solid state physics, including crystal structure; free electron gas model; electronic structure of solids; phonons; properties of metals, insulators and semiconductors; magnetism; superconductivity. Four hours lecture. Prerequisite: PHYS 421. (4 units)

**461. Introduction to Nuclear Physics**

Basic concepts of nuclear structure and reactions, including accelerators and detectors, the nucleon-nucleon force, basic nuclear properties, the shell model, radioactivity, heavy ion reactions and quarks. Four hours lecture. Prerequisites: PHYS 306, 422 and 373. (4 units)

**463. Introduction to Elementary Particle Physics**

A survey of elementary particle physics, including accelerators, relativistic kinematics, conservation laws, quarks, the standard model, and quantum field theories. Four hours lecture. Prerequisites: PHYS 306, 422 and 373. (4 units)

**473. Mathematical Methods of Physics II**

A continuation of PHYS 373. Topics covered include functions of a complex variable and partial differential equations. Prerequisite: PHYS 373. MATH 331 and PHYS 225 are strongly recommended. (4 units)

**480. Topics in Classical Physics**

Further treatment of topics in physics introduced in previous courses.

A. Mechanics. Prerequisite: PHYS 307. (4 units)

B. Electrodynamics. Prerequisite: PHYS 314. (4 units)

**485. Topics in Contemporary Physics**

A lecture course on a current topic or on new developments in physics. May be repeated for credit as topics change. (1-4 units)

**573. Mathematical Methods of Physics III**

A continuation of PHYS 473 with emphasis on advanced topics relevant to physics. Prerequisites: MATH 331 and PHYS 473. (4 units)

**585. Internship in Physics**

Supervised work and study in physics in private or public setting. May be repeated for up to six units of credit. Graded credit/no credit. Prerequisites: consent of instructor and department. (2-4 units)

**590. Physics Seminar**

Provides a vehicle for assessing the subject matter competency of physics graduates. May be repeated for credit. A total of two units may be applied towards the major requirements for graduation. Lecture only. Prerequisites: senior standing and consent of department. (1 unit)

**595. Independent Study**

Research in physics conducted under the direction of a faculty member. A total of six units in PHYS 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-6 units)

# POLITICAL SCIENCE

## Department of Political Science

Social and Behavioral Sciences Building, Room 112  
(909) 537-5535 <http://polisci.csusb.edu>

### Bachelor of Arts

Political Science

### Minor

Political Science  
Pre-law

### Master of Arts

National Security Studies  
(Degree requirements can be found on Page 473.)

### Certificate Program

International Relations

**FACULTY:** Donovan Chau, Mark Clark, Edward Erler,  
William Green, Brian Janiske (Chair), Alemayehu Mariam,  
Scot Zentner

The major in political science is designed for students who desire a liberal arts program with an emphasis on politics, government and public policy; plan a career in government service or public administration; seek training for positions in foreign service agencies of the United States government, international organizations or corporations; intend to study law; wish to prepare for teaching in the public schools; or intend to work for advanced degrees in political science in preparation for college or university teaching or for government service.

The department offers courses in the following fields:  
American government and politics  
Comparative politics  
International relations  
Political theory  
Public law

## B.A. IN POLITICAL SCIENCE

### Requirements (68 units)

**Total units required for graduation: 180**

#### Requirements for the B.A. in Political Science:

1. PSCI 203. American Government (4)
2. PSCI 204. International Relations (4)
3. PSCI 314. American Political Thought (4)
4. American government and politics  
Eight units chosen from:  
PSCI 320. The Legislative Process (4)  
PSCI 326. Political Parties and Interest Groups (4)  
PSCI 330. State and Local Politics (4)  
PSCI 431. The American Presidency (4)
5. Comparative government  
Eight units chosen from:  
PSCI 300. Western Political Systems (4)  
PSCI 304. East European Political Systems (4)  
PSCI 306. Developing Political Systems (4)  
PSCI 308. Government and Politics of the Middle East (4)
6. International relations  
Eight units chosen from:  
PSCI 325. American Foreign Policy (4)  
PSCI 400. International Politics (4)  
PSCI 500. International Law (4)  
PSCI 510. International Organization (4)

7. Political theory  
Eight units chosen from:  
PSCI 310. Classical Political Thought (4)  
PSCI 311. Foundations of Modern Political Thought (4)  
PSCI 313. Modern Political Thought (4)  
PSCI 315. Post Modern Political Thought (4)
  8. Public law  
Eight units chosen from:  
PSCI 328. Judicial Process (4)  
PSCI 410. American Constitutional Law (4)  
PSCI 411. The Bill of Rights (4)  
PSCI 412. Civil Rights (4)
  9. Sixteen additional units of electives in upper-division course work in political science, eight of which must be chosen from:  
PSCI 530. Studies in Political Theory (4)  
PSCI 535. Seminar in Constitutional Law (4)  
PSCI 540. Seminar in Comparative Politics (4)  
PSCI 590. Seminar in International Relations (4)  
PSCI 592. Seminar in Government (4)
- Note:** The following will count as electives only after approval by the department chair:  
PSCI 575. Internship in Political Science  
PSCI 595. Independent Study

With approval of the department chair, up to eight units in related fields may be counted toward the upper-division course requirement in political science.

## MINOR IN POLITICAL SCIENCE

### Requirements (32 units)

#### Requirements for a minor in Political Science:

1. PSCI 203. American Government (4)
2. PSCI 204. International Relations (4)
3. PSCI 314. American Political Thought (4)
4. Twenty units of upper-division political science course work chosen in consultation with an advisor.

## MINOR IN PRE-LAW

### Requirements (28 units)

#### Requirements for a minor in Pre-law:

1. PSCI 328. Judicial Process (4)
2. PSCI 410. American Constitutional Law (4)
3. PSCI 411. The Bill of Rights (4)
4. PSCI 535. Seminar in Constitutional Law (4)
5. Twelve units chosen from:  
CJUS 370. Law and the Courts (4)  
CJUS 580. Juvenile Justice System (4)  
HIST 540. Constitutional History of the United States (4)  
MGMT 330. Legal Environment of Business (4)  
PA 472. Administrative Law (4)  
May choose only one of the following three courses:  
PHIL 362A. Philosophy of Law: The Concept of Law (4)  
PHIL 362B. Philosophy of Law: Morality and the Law (4)  
PHIL 362C. Philosophy of Law: Rights and the Law (4)  
PSCI 500. International Law (4)

## DEPARTMENTAL HONORS

Students majoring in political science who have a grade point average of at least 3.0 overall and 3.5 in the major are eligible to receive departmental honors at graduation.

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**PI SIGMA ALPHA**

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A student must have completed at least 15 quarter hours or ten semester hours of work in government, political science, international relations, or public administration including at least one course not open to students in the first two years of collegiate work. The student must have at least 90 credits overall. Seniors must have at least a 3.0 average or higher in all political science courses and at least a 3.0 average overall. Juniors must have at least a 3.25 grade point average overall and in the major. Additional information can be obtained from the Department of Political Science.

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**CERTIFICATE PROGRAM**

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Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to (a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. See Page 58 for additional certificate information.

**Certificate in International Relations****Certificate Requirements (32 units)**

1. Twenty units chosen from:
  - PSCI 300. Western Political Systems (4)
  - PSCI 304. East European Political Systems (4)
  - PSCI 306. Developing Political Systems (4)
  - PSCI 325. American Foreign Policy (4)
  - PSCI 400. International Politics (4)
  - PSCI 484. National Security Policy (4)
  - PSCI 500. International Law (4)
  - PSCI 510. International Organization (4)
  - PSCI 540. Seminar in Comparative Politics (4)
  - PSCI 590. Seminar in International Relations (4)
2. Twelve units chosen from:
  - ECON 430. International Economics (4)
  - ECON 435. Multinational Corporations (4)
  - ECON 450. Global Economy (4)
  - HIST 556. Foreign Relations of the United States (4)
  - MKTG 470. International Marketing Management (4)
  - SSCI 300. Nonwestern World (4)

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**COURSE OFFERINGS IN  
POLITICAL SCIENCE (PSCI)**

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**Lower Division****203. American Government**

Political structure and processes of the American governmental system. This course meets the state code requirements in U.S. Constitution and state and local government. (GE=D2) (PSCI 203=CAN GOVT 2) (4 units)

**204. International Relations**

A survey of major regions and ideologies of the world, and of the basic concepts of foreign and security policies, international political economy, international law, and international organizations. (4 units)

**Upper Division****300. Western Political Systems**

Major Western political systems. (4 units)

**304. East European Political Systems**

Comparative examination of the domestic and foreign policies of East European states. (4 units)

**306. Developing Political Systems**

Political systems, governmental structures, political orientation and foreign policies of developing nations. (4 units)

**308. Government and Politics of the Middle East**

Governmental and political structures of representative states in the Middle East, including Turkey, Israel, and the Arab States. (4 units)

**310. Classical Political Thought**

Classical political thought through a consideration of representative political thinkers such as Plato, Aristotle, Thucydides, Cicero, Lucretius. (4 units)

**311. Foundations of Modern Political Thought**

Major political ideas of the early modern period ranging from Machiavelli through Hobbes, Locke, Rousseau and Burke. (4 units)

**313. Modern Political Thought**

Major political ideas of the nineteenth century. (4 units)

**314. American Political Thought**

American political ideas from the colonial period to the present. This course meets the state code requirement in U.S. history. (4 units)

**315. Post Modern Political Thought**

Major political ideas of the twentieth century. (4 units)

**320. The Legislative Process**

Law-making processes in the United States and/or other selected political systems. (4 units)

**325. American Foreign Policy**

Political analysis of American foreign policy with emphasis on foreign policy making in the nuclear age. (4 units)

**326. Political Parties and Interest Groups**

Organization, objectives and activities of political parties and political interest groups and their functions in modern political systems. (4 units)

**328. Judicial Process**

Process of judicial decision-making with emphasis on factors influencing that process and concepts of judicial roles. (4 units)

**330. State and Local Politics**

Comparison of state and local political systems within the American Federal System. This course meets the state code requirement in state and local government. (4 units)

**332. California Government**

The California Constitution, government and political institutions. This course is specifically designed to meet the state code requirement in state and local government. (2 units)

**340. Sex and Politics**

Emphasis will be on sex roles in traditional and modern political systems, sex stereotypes in politics; effects of changing technology on conventional male and female roles; dynamics of change affecting the woman's place in the political world. (4 units)

**342. The Politics of Environment**

Environmental problems in their political context, including air, water, thermal and noise pollution, solid waste, population growth, resource



management, and the political costs and benefits of environmental protection. (4 units)

### 352. Minority Politics

Minority groups in the American political system. May be repeated as topics change.

- A. Ethnic Politics. Study of immigration with emphasis on the political development of major civil rights activities in the U.S. (4 units)
- B. African American Politics. Perspectives, styles, problems and dynamics of political activity in African American communities. (4 units)
- C. Latino Politics. Contemporary issues and public policy questions in the Latino/Chicano communities. (4 units)
- D. Asian American Politics. Political factors affecting the Asian American communities. (4 units)
- E. Native American Politics. Political factors affecting Native American communities. (4 units)

### 375. Introduction to Political Science Research

Basic ideas and research topics used by political scientists with topics to include theory construction, research design, quantitative methods and philosophy of science. Prerequisites: PSCI 314 and MATH 110. (4 units)

### 380. Introduction to Public Administration

An introduction to the purposes, methods and characteristics of public management, including organization of public services, roles and relationships of public administrators, accountability and the achievement of public goals. (Also offered as PA 380. Students may not receive credit for both.) (4 units)

### 400. International Politics

Selected theories and evolving patterns of international politics as developed within the nation-state system. (4 units)

### 410. American Constitutional Law

Principles of the American Constitution as announced by the Supreme Court in selected cases. Judicial review, separation of powers, presidential power, federalism and commerce are included. This course meets the state code requirement in the U.S. Constitution. (4 units)

### 411. The Bill of Rights

Limitation on federal and state power arising out of the provisions of the first eight and the 14th Amendments to the Constitution. Modern developments are stressed. This course meets the state code requirement in the U.S. Constitution. (4 units)

### 412. Civil Rights

Jurisprudence of the 13th, 14th and 15th Amendments as articulated by the U.S. Supreme Court. (4 units)

### 428. Formulation of Public Policy

Basic approaches to public policy analysis, emphasizing interaction between substance and process in policy development. (4 units)

### 431. The American Presidency

Office and institution of the presidency of the United States. (4 units)

### 484. National Security Policy

Introduction to concepts and principles of national security policy through an examination of topics in international relations, foreign policy, arms control, strategic thought and alliance strategy. (4 units)

### 500. International Law

Historical basis and present trends in the development of international law. (4 units)

### 510. International Organization

History, structure and dynamics of the United Nations and other multinational organizations. (4 units)

### 520. War and Politics

The study of the origins and political consequences of war. (4 units)

### 530. Studies in Political Theory

Concentrated study of one political theorist or one subject in political theory. May be repeated for credit as topics change. (4 units)

### 535. Seminar in Constitutional Law

Intensive study in one or more aspects of constitutional law. Prerequisite: one of the following: PSCI 328, 410, 411, HIST 540 or consent of instructor. (4 units)

### 540. Seminar in Comparative Politics

Theories, methods, and paradigms of comparative politics. May be repeated as topics change. (4 units)

### 560. Intergovernmental Relations

Administrative and political dynamics of relationships among national, state and local units of government. (4 units)

### 571. Organization of U.S. Intelligence

A self-paced study course providing detailed information about the structure, procedures and organizational principles behind the U.S. intelligence community. (1 unit)

### 575. Internship in Political Science

Supervised work and study in public and private organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and department. (2-4 units)

### 590. Seminar in International Relations

Intensive study of some phase of foreign policy-making or international relations to be developed by instructor with class. May be repeated for credit as topics change. (4 units)

### 592. Seminar in Government

An intensive study of some phase of government to be developed by instructor with class. May be repeated for credit as topics change. (4 units)

### 595. Independent Study

Special topics involving library and/or field research. A total of eight units in PSCI 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted in advance of the quarter in which the course is to be taken. (2-4 units)

### 597. Senior Honors Thesis

In-depth research culminating in a written thesis. Written proposals will be invited from seniors with a 3.5 grade point average in all political science courses. Enrollment is limited to those students whose proposals are approved by the Political Science Honors Thesis Committee. (4 units)

Graduate level courses can be found on Page 481.

# PSYCHOLOGY

## Department of Psychology

Social and Behavioral Sciences Building, Room 425  
(909) 537-5570 <http://psychology.csusb.edu/>

### Bachelor of Arts

- Psychology
- Psychology - Biological Psychology

### Minor

- Psychology

### Master of Arts

- Psychology  
(Degree requirements can be found on Page 482.)

### Master of Science

- Psychology  
(Degree requirements can be found on Page 483.)

**FACULTY:** Mark Agars, Allen Butt, Sybil Carrere, David Chavez, Yuchin Chien, John Clapper, Gloria Cowan (Emeritus), Robert Cupp, Robert Cramer, Cynthia Crawford, Kristy Dean, Janelle Gilbert, Chuck Hoffman, Azadeh Jebelli, Laura Kamptner, James Kaufman, Hideya Koshino, Janet Kottke, Michael Lewin, Faith McClure, Sanders McDougall, Fred Newton, Jean Peacock, Jason Reimer, Robert Ricco, David Riefer, Matt Riggs, Luis Rivera, Kenneth Shultz, Geraldine Stahly, Edward Teyber, Jodie Ullman, Sharon Ward, Amanda Wilcox-Herzog, Eugene Wong, Joanna Worthley (Chair)

The general objectives of the Bachelor of Arts in Psychology are to present the scientific and professional aspects of psychology to the undergraduate majoring in this field and to provide service courses as electives for students throughout the university. Psychology majors may plan to apply the knowledge and skills provided by a broad psychology background to many diverse employment opportunities which do not require graduate training. The department also offers course work leading to the Master of Arts or the Master of Science in Psychology. Students intending to enroll in these programs or another graduate school will find the undergraduate program provides an excellent base for entry into graduate training.

Courses offered by the department range from the basic scientific courses such as experimental psychology, learning and perception to such applied courses as counseling and behavior modification. Laboratory and training facilities complement a wide variety of courses.

## B.A. IN PSYCHOLOGY

### Requirements (66-68 units)

#### Total units required for graduation: 180

As prerequisites for acceptance into the B.A. in Psychology or Biological Psychology, students must complete the following as a "Pre-psychology major." Upon completion of the requirements, student's major will be changed automatically from "Pre-psychology" to "Psychology" status. Following formal entrance to the psychology major, students may proceed with PSYC 311 and 400-level courses. Students enrolled in their pre-psychology course in statistics (e.g. PSYC 210) will be allowed to enroll in PSYC 311 for the following quarter with the understanding that all pre-psychology requirements will be completed successfully.

### Requirements to enter the B.A. in Psychology:

- Completion of the following:
  - General Education Basic Skills in English (A1)  
One of the following:  
ENG 101. Freshman Composition
  - General Education Basic Skills in Mathematics (A3)  
One of the following:  
MATH 110. College Algebra  
MATH 115. The Ideas of Mathematics  
MATH 120. Pre-Calculus Mathematics  
MATH 192. Methods of Calculus  
MATH 211. Basic Concept of Calculus
  - PSYC 100. Introduction to Psychology, or its equivalent (also satisfies General Education category D4)
  - PSYC 101. Psychology as a Major (1)
  - PSYC 210. Psychological Statistics (5) or its equivalent
- The grade earned in the above courses must be no lower than a "C" (2.0).  
Students are encouraged to petition for the "Pre-psychology major" and to complete PSYC 101 early in the curriculum.

### Requirements for the B.A. in Psychology:

- PSYC 100. Introduction to Psychology (4)
- PSYC 101. Psychology as a Major (1)
- PSYC 210. Psychological Statistics (5)
- PSYC 311. Introduction to Experimental Psychology (6)
- Fields of Psychology  
Twelve units chosen from:  
PSYC 201. Developmental Psychology (4)  
PSYC 240. Introduction to Child Development (4)  
PSYC 355. Industrial Psychology (4)  
PSYC 382. Psychology of Social Behavior (4)  
PSYC 385. Personality (4)  
PSYC 390. Abnormal Psychology (4)  
**Note:** Students may apply only one of the following courses to the Psychology major:  
PSYC 201. Developmental Psychology (4)  
PSYC 240. Introduction to Child Development (4)
- Basic Processes  
Twelve units chosen from:  
PSYC 357. History and Systems of Psychology (4)  
PSYC 360. Cognitive Psychology (4)  
PSYC 362. Learning and Motivation (4)  
PSYC 363. Biological Psychology (4)  
PSYC 364. Perception (4)
- Applications  
Four units chosen from:  
PSYC 315. Communication Processes (5)  
PSYC 318. Health Psychology (4)  
PSYC 351. Behavior Modification: Principles and Applications (4)  
PSYC 377. Tests and Measurements (4)  
PSYC 386. Introduction to Psychotherapy (4)  
PSYC 575. Internship in Psychology (4)
- Advanced Culminating Experience (6-8 units)  
Students must select one of the following options:  
**OPTION I (6 units)**  
Six units chosen from:  
PSYC 431. Experimental Psychology: Developmental (6)  
PSYC 432. Experimental Psychology: Clinical (6)  
PSYC 433. Experimental Psychology: Biological (6)  
PSYC 434. Experimental Psychology: Social (6)  
PSYC 435. Experimental Psychology: Personality (6)  
PSYC 436. Experimental Psychology: Learning and Motivation (6)

- PSYC 437. Experimental Psychology: Cognition and Perception (6)  
 PSYC 438. Experimental Psychology: Industrial and Organizational (6)

**OPTION II (8 units)****A. Four units chosen from:**

- PSYC 421. Advanced Seminar in Psychology: Developmental (4)  
 PSYC 422. Advanced Seminar in Psychology: Clinical (4)  
 PSYC 423. Advanced Seminar in Psychology: Biological (4)  
 PSYC 424. Advanced Seminar in Psychology: Social (4)  
 PSYC 425. Advanced Seminar in Psychology: Personality (4)  
 PSYC 426. Advanced Seminar in Psychology: Learning and Motivation (4)  
 PSYC 427. Advanced Seminar in Psychology: Cognition and Perception (4)  
 PSYC 428. Advanced Seminar in Psychology: Industrial and Organizational (4)

**B. PSYC 357. History and Systems of Psychology (4) (If taken in category 6 in the core, students must take an additional four units from categories 5, 6 or 7.)**

9. Sixteen units in upper-division psychology electives. Students intending to apply to doctoral programs in psychology are encouraged to take the following courses:

- PSYC 357. History and Systems of Psychology  
 PSYC 377. Tests and Measurements  
 PSYC 410. Advanced Psychological Statistics  
 PSYC 595. Independent Study  
 and Option I for the culminating experience.

Students interested in other educational and career goals have the opportunity to either diversify or concentrate their studies according to individualized plans developed in consultation with a departmental advisor.

## **B.A. IN PSYCHOLOGY - BIOLOGICAL PSYCHOLOGY**

**Requirements (66 units)****Total units required for graduation: 180****Requirements for the B.A. in Psychology - Biological Psychology:**

- PSYC 100. Introduction to Psychology (4)
- PSYC 101. Psychology as a Major (1)
- PSYC 210. Psychological Statistics (5)
- PSYC 311. Introduction to Experimental Psychology (6)
- PSYC 363. Biological Psychology (4)
- PSYC 442. Behavioral Neuroscience (4)
- Fields of Psychology  
Twelve units chosen from:  
May choose only one of the following two courses:  
PSYC 201. Developmental Psychology (4)  
PSYC 240. Introduction to Child Development (4)  
PSYC 355. Industrial Psychology (4)  
PSYC 382. Psychology of Social Behavior (4)  
PSYC 385. Personality (4)  
PSYC 390. Abnormal Psychology (4)
- Basic Processes  
Four units chosen from:  
PSYC 357. History and Systems of Psychology (4)  
PSYC 360. Cognitive Psychology (4)  
PSYC 364. Perception (4)

**9. Foundations of Biopsychology**

Eight units chosen from:

- PSYC 362. Learning and Motivation (4)  
 PSYC 365. Cognitive Neuroscience (4)  
 PSYC 538. Introduction to Psychopharmacology (4)  
 May choose only one of the following two courses:  
 ANTH 327. Primate Evolution and Ecology (4)  
 BIOL 306. Human Heredity and Development (4)

**10. Advanced Culminating Experience**

Six units chosen from:

- PSYC 433. Experimental Psychology: Biological (6)  
 PSYC 436. Experimental Psychology: Learning and Motivation (6)

**11. Upper-division biopsychology electives**

Twelve chosen units from:

- PSYC 318. Health Psychology (4)  
 PSYC 324. Developmental Psychobiology (4)  
 PSYC 333. Drugs and Behavior (4)  
 PSYC 339. Human Psychophysiology (4)  
 PSYC 362. Learning and Motivation (4)  
 PSYC 365. Cognitive Neuroscience (4)  
 PSYC 367. Neuropsychiatric Disorders (4)  
 PSYC 410. Advanced Psychological Statistics (4)  
 PSYC 423. Advanced Seminar in Psychology: Biological (4)  
 PSYC 426. Advanced Seminar in Psychology: Learning and Motivation (4)  
 PSYC 538. Introduction to Psychopharmacology (4)

May choose only one of the following two courses if not taken in Category 9:

- ANTH 325. Human Biological Variation and the Concept of Race (4)  
 ANTH 327. Primate Evolution and Ecology (4)  
 BIOL 306. Human Heredity and Development (4)

Students intending to apply to doctoral programs in biopsychology are encouraged to take appropriate course work in biology, chemistry, and physics.

## **MINOR IN PSYCHOLOGY**

**Requirements (32 units)****Requirements for a minor in Psychology:**

- PSYC 100. Introduction to Psychology (4)
- Fields of Psychology  
Four units chosen from:  
PSYC 201. Developmental Psychology (4)  
PSYC 240. Introduction to Child Development (4)  
PSYC 355. Industrial Psychology (4)  
PSYC 382. Psychology of Social Behavior (4)  
PSYC 385. Personality (4)  
PSYC 390. Abnormal Psychology (4)
- Basic Processes  
Four units chosen from:  
PSYC 357. History and Systems of Psychology (4)  
PSYC 360. Cognitive Psychology (4)  
PSYC 362. Learning and Motivation (4)  
PSYC 363. Biological Psychology (4)  
PSYC 364. Perception (4)
- Applications  
Four units chosen from:  
PSYC 315. Communication Processes (5)  
PSYC 318. Health Psychology (4)  
PSYC 351. Behavior Modification: Principles and Applications (4)  
PSYC 377. Tests and Measurements (4)  
PSYC 386. Introduction to Psychotherapy (4)  
PSYC 575. Internship in Psychology (4)
- Sixteen units of upper-division psychology electives are required.

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**DEPARTMENTAL HONORS**

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Students majoring in psychology are eligible to receive honors in psychology at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major;
3. An overall grade point average of 3.25 or better;
4. Completion of the three-quarter Honors Program with a grade of "B" (3.0) or better each quarter:  
PSYC 597. Honors Seminar  
PSYC 598A. Honors Project I  
PSYC 598B. Honors Project II

Students interested in this recognition must file a formal application for enrollment in the Psychology Honors Program at the end of their junior year.

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**COURSE OFFERINGS IN  
PSYCHOLOGY (PSYC)**

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**Lower Division****100. Introduction to Psychology**

A survey of the field of modern psychology. (GE=D4) (PSYC 100=CAN PSY 2) (4 units)

**101. Psychology as a Major**

A survey of different areas of specialization and professional activities of psychologists. Graded credit/no credit. Prerequisite: PSYC 100. (1 unit)

**105. Critical Thinking Through Problems Analysis**

Development of basic skills in critical thinking including identifying and understanding common fallacies, recognizing techniques of persuasion and propaganda, problem solving strategies, and applying skills of critical thinking to the complex issues of everyday life. (GE=A4) (4 units)

**115. Personal and Social Adjustment**

Application of psychological principles to predictable challenges and problems over the life span. Explores opportunities for adjustment and growth in a variety of circumstances, such as family and college life. May not be counted toward fulfillment of requirements in the psychology major. (GE=E2) (2 units)

**120. Career Development**

Examination of the world of work and individual self-assessments, including exploration of career aspirations and goals. (2 units)

**201. Developmental Psychology**

Introduction to the psychological development of the person from the prenatal period through old age. Prerequisite: PSYC 100. (4 units)

**210. Psychological Statistics**

Introduction to statistical reasoning and application of basic statistical procedures in psychology. Includes both descriptive and inferential statistics with emphasis on parametric techniques. Credit may not be received for more than one of the following courses: PSYC 210 or SCM 210. Four hours lecture and three hours of laboratory. (PSYC 210=CAN PSY 6) (5 units)

**240. Introduction to Child Development**

Comprehensive introduction to child development from conception through adolescence. Emphasis is on physical, cognitive social, emotional and language development. (Also offered as HD 240. Students may not receive credit for both.) (4 units)

**Upper Division****301. Psychology of Human Sexuality**

Theory and empirical findings from the areas of social, developmental, physiological, and clinical psychology as they apply to human sexual behavior. (4 units)

**302. Management and Organizational Behavior**

Introduction to management as it affects operations and the behavior of people in relation to the functional fields of administration. Selected behavioral concepts analyzed with respect to applications in management. (Also offered as MGMT 302. Students may not receive credit for both.) (4 units)

**303. Parenting and Family Relations**

Effects of parenting and intra-family relations on child and life-span psychological development. Prerequisites: PSYC 100 and 201 or equivalent. (4 units)

**305. Psycholinguistics**

An introduction to theory and research on the psychological study of language, first language acquisition, and the relation of language to thought and culture. Prerequisite: PSYC 100. (4 units)

**308. Psychology and the Movies**

Exploring psychology through the movies. Movies will be screened during class and used as a vehicle for discussing such psychological topics as mental illness, the portrayal of psychiatry and therapy, creativity, relations between different ethnicities and cultures, gender issues, biases and prejudices, and other essential topics. Formerly a topic under PSYC 375. (4 units)

**310. Applied Research Methods**

Overview of applied research methods in psychology and the behavioral sciences. Emphasis on the use of applied methods, their analyses, and scientific writing. Topics may include quasi-experimental design, correlational design, behavioral observation, archival analysis, single-case methodology, survey methodology, research ethics, library research strategies, and writing research reports. (Also offered as HD 310. Students may not receive credit for both.) Prerequisites: PSYC 100 and 210. (4 units)

**311. Introduction to Experimental Psychology**

Design and execution of psychological research. Four hours lecture and six hours laboratory. Prerequisites: PSYC 100 and 210; restricted to psychology majors, human development majors, human services majors or consent of department. (6 units)

**315. Communication Processes**

Introduction to the nature of the helping process with emphasis on strategies of behavior change, interpersonal communication and basic helping skills. Four hours lecture and two hours laboratory. Prerequisite: PSYC 100. (5 units)

**318. Health Psychology**

Examination of psychological aspects of health related behaviors with emphasis on the effects of interpersonal and social psychological factors on physical health and effective medical care. Prerequisite: PSYC 100. (4 units)

**320. Psychology of Middle Childhood**

Theories and their applications to physical, cognitive, social and emotional development during the middle childhood years. A field based component will be required. (4 units)



**324. Developmental Psychobiology**

Psychobiological bases of human behavioral development throughout the life span. (Also offered as HD 324. Students may not receive credit for both.) Prerequisite: PSYC 100. (4 units)

**328. Psychology of Adolescent Development**

Theory and empirical literature concerning the physical, cognitive, social, and emotional changes from puberty to adulthood. A field based component will be required. (4 units)

**329. Psychology of Adulthood and Aging**

An examination of physical, social, cognitive, and personality development from young adulthood through death. Special attention is given to theory, research, and applications in the area of gerontology. Prerequisites: PSYC 100 and 201, or consent of instructor. (4 units)

**331. The Psychology of Women**

A critical study of theory and data on the psychological development of females; their attitudes, behaviors, psychopathologies, abilities and self-images. Prerequisite: PSYC 100. (4 units)

**333. Drugs and Behavior**

Analysis of drugs from psychological, behavioral and physiological viewpoints. Topics include drug classification, altered states of consciousness, addiction, chemical nature and treatment of mental illness. Prerequisite: PSYC 100 or consent of instructor. (4 units)

**334. Addiction and Recovery**

Research and theories related to the psychological, behavioral and physiological basis of addiction and recovery. A variety of common addictive disorders will be considered including eating, smoking, gambling, work, sex and drugs. Prerequisite: PSYC 100 or consent of instructor. (4 units)

**339. Human Psychophysiology**

An examination of the human psychophysiological literature with emphasis on research findings, clinical applications and theory related to the analysis of the relationships between bodily processes, psychological states and behavior. Prerequisite: PSYC 100 or consent of instructor. (4 units)

**340. Stereotyping, Prejudice, and Discrimination**

Psychological underpinnings of stereotyping, prejudice, and discrimination are examined. Implicit and explicit attitudes of bias such as sexism, racism, and homophobia, and the effects of these attitudes on the self and health, and interventions that reduce attitudes are studied. Prerequisite: PSYC 100 or consent of instructor. (4 units)

**341. Women and Violence**

Issues of women and violence, combining empirical and theoretical work with community training in agencies dealing with violence against women; including service learning. Formerly a topic under PSYC 375. Two hours lecture and 40 hours of volunteer training. Prerequisite: PSYC 100 or consent of instructor. (4 units)

**345. Cross-Cultural Psychology**

Cross-cultural psychology focusing on cultural variability in basic psychological processes and the cultural limits of traditional psychological theories. (4 units)

**349. The Psychology of Gays and Lesbians**

Analysis of theories and research on homosexuality, social reactions to homosexuality, and gay and lesbian cultural adaptations. (4 units)

**350. Development of Exceptional Children**

Review of theory, assessment, management, and rehabilitation of exceptional children. Includes developmental implications of specific

medical conditions, retardation, and learning/cognitive dysfunctions. Prerequisite: HD 240, 280, or PSYC 201. (4 units)

**351. Behavior Modification: Principles and Applications**

Analysis of the theory, techniques and ethics of behavior modification. Prerequisite: PSYC 100 or consent of instructor. (4 units)

**355. Industrial Psychology**

Practices of modern industrial and personnel psychology. Includes selection, placement, training, motivation, job analysis, evaluation and human factors. Prerequisite: PSYC 100 or consent of instructor. (4 units)

**357. History and Systems of Psychology**

A historical framework for integrating basic orientations in contemporary psychology, including the development of the major schools of thought in psychology. Prerequisite: PSYC 100. (4 units)

**358. Cognitive Development**

Survey of the major theories, issues and research in the development of perceptual and cognitive capacities from childhood through adulthood. Prerequisites: PSYC 100 and 201. (4 units)

**360. Cognitive Psychology**

Research and theories concerning human information processing; topics include sensory processes, attention, memory, language and other higher mental processes. Prerequisite: PSYC 100. (4 units)

**361. Intelligence and Creativity**

Introduction to intelligence and creativity with an emphasis on theories, measurement and current debates, including among others, the Bell Curve, the link between creativity and mental illness, and role of IQ tests and creativity in school and work assessment. Formerly a topic under PSYC 375. (4 units)

**362. Learning and Motivation**

Survey of research and major theories in animal and human learning and motivation. Applications of learning and motivational principles. Prerequisite: PSYC 100. (4 units)

**363. Biological Psychology**

Overview of the biological basis of behavior with emphasis on the relationship between brain function and thought, emotion, perception, language, learning, memory and motivation. Prerequisite: PSYC 100. (4 units)

**364. Perception**

Selected topics in the field of perceptual processes. Includes review of contemporary theories and research. Class demonstrations and mini-projects. Prerequisite: PSYC 100 or consent of instructor. (4 units)

**365. Cognitive Neuroscience**

Examination of the neural foundations of human mental functioning, including perception, attention, memory, language, thinking and consciousness. Special emphasis on human neuroimaging as well as behavioral and cognitive impairments from brain injury. Prerequisite: PSYC 100 or consent of instructor. (4 units)

**367. Neuropsychiatric Disorders**

An examination of brain systems involved in psychiatric syndromes and neurological disorders, including Parkinson's disease, Alzheimer's disease, schizophrenia, depression, and bipolar disorders. Provides a basic understanding of brain dysfunctions that contribute to these disorders and rationales for pharmacological treatments. Prerequisite: PSYC 100 or consent of instructor. (4 units)

**304 / Psychology****370. Topics in Psychology**

Selected psychology topics with specific focus within relatively narrow content areas. May be repeated for credit as topics change. Prerequisite: PSYC 100. (2 units)

**372. Psychology of Death and Dying**

A review of current theory and research on the psychology of grief, death and dying. (Also offered as HD 372. Students may not receive credit for both.) Prerequisite: PSYC 201 or equivalent. (4 units)

**375. Seminar in Psychology**

Selected topics which encompass areas of current theoretical and/or research interest in psychology. May be repeated for credit as topics change. Prerequisite: PSYC 100. (4 units)

**377. Tests and Measurements**

Administration of psychological tests and scales; interpretation and use of the data which they yield. Prerequisites: PSYC 100 and 210. (4 units)

**382. Psychology of Social Behavior**

Major concepts, issues and psychological research regarding social influence on individual behavior. Prerequisite: PSYC 100. (4 units)

**384. Personality and Social Development**

Development of personality, emotions and social behavior from childhood through adulthood. Prerequisites: PSYC 100 and 201 or equivalents. (4 units)

**385. Personality**

Survey of the major theories of personality. Prerequisite: PSYC 100 or consent of instructor. (4 units)

**386. Introduction to Psychotherapy**

Introduction to theories, methods and research in psychotherapy. Prerequisite: PSYC 100. (4 units)

**387. Community Psychology**

Comprehensive study of the discipline of community psychology which emphasizes the relationship of community resources to individual mental health needs. Prerequisite: PSYC 100. (4 units)

**390. Abnormal Psychology**

An introduction to psychopathology, emphasizing the major interpretations and treatments of emotional and behavioral disorders. Prerequisite: PSYC 100 or consent of instructor. (4 units)

**391. Psychopathology of Childhood**

Psychological and emotional disorders of children with special emphasis on diagnostic and clinical treatment. Prerequisites: PSYC 100 and 201. (4 units)

**395. Psychology of Consciousness**

Human consciousness from the perspectives of the experiential, behavioral and physiological psychology literatures. Includes survey of research and theory on topics such as waking consciousness, dreams, meditation and altered states of consciousness. Prerequisite: PSYC 100. (4 units)

**400. Child Assessment**

Theory and procedures for assessing cognitive, social, and motor abilities in infants and children. Includes a practicum in administering and interpreting selected developmental screening tests. Four hours lecture and three hours practicum. (Also offered as HD 400. Students may not receive credit for both.) Prerequisites: one of the following: HD 240, 280, PSYC 201 or 240; and one of the following: HD 245, 246 or 247. (5 units)

**410. Advanced Psychological Statistics**

Coverage of advanced statistical reasoning and application of statistical procedures in psychology. Includes both parametric and non-parametric techniques with an introduction to multivariate statistics. Statistical computer packages will be introduced. Four hours lecture and three hours laboratory. Prerequisites: PSYC 210 or SCM 210; or consent of instructor. (5 units)

**421. Advanced Seminar in Psychology: Developmental**

A review of selected research areas in the fields of child and life-span developmental psychology. Students will develop an advanced project. Prerequisites: PSYC 201 and 311 or consent of instructor. (4 units)

**422. Advanced Seminar in Psychology: Clinical**

A review of selected topics in clinical psychology outcome research, such as psychopathology, adaptation and coping, health promotion, and cultural factors in diagnosis and treatment. Students will develop an advanced project. Prerequisites: PSYC 311, and either PSYC 386 or 390. (4 units)

**423. Advanced Seminar in Psychology: Biological**

A review of the literature regarding the neural and endocrine processes underlying brain function and behavior. Students will develop an advanced project. Prerequisites: PSYC 311 and 363 or consent of instructor. (4 units)

**424. Advanced Seminar in Psychology: Social**

A review of theories and empirical results of experimental social psychology in selected areas such as group dynamics, social perception, communication and attitudes. Students will develop an advanced project. Prerequisites: PSYC 311 and 382 or consent of instructor. (4 units)

**425. Advanced Seminar in Psychology: Personality**

A review of contemporary personality theories and the relationship of personality to behavior. Students will develop an advanced project. Prerequisites: PSYC 311 and 385. (4 units)

**426. Advanced Seminar in Psychology: Learning and Motivation**

A review of selected theories and research in areas of learning and motivation. Students will develop an advanced project. Prerequisites: PSYC 311 and 362, or consent of instructor. (4 units)

**427. Advanced Seminar in Psychology: Cognition and Perception**

A review of human information processing, memory, thinking and perceptual processes. Students will develop an advanced project. Prerequisites: PSYC 311 and either PSYC 360 or 364. (4 units)

**428. Advanced Seminar in Psychology: Industrial and Organizational**

A review of industrial/organizational psychology, in selected areas such as work motivation, performance evaluation, training techniques, and selection approaches. Students will develop an advanced project. Prerequisites: PSYC 311, 377 and one of the following: MGMT 302, PSYC 302 or 355. (4 units)

**431. Experimental Psychology: Developmental**

Selected research areas in the fields of child and life-span developmental psychology. Includes review of current literature and experimental techniques in developmental research. Four hours lecture

and six hours laboratory. Prerequisites: PSYC 201 and 311 or consent of instructor. (6 units)

### **432. Experimental Psychology: Clinical**

Empirical studies in clinical psychology. Study options include experimental psychopathology, adaptation and coping, health promotion, anxiety/stress, mood/emotion and cultural factors in diagnosis and treatment. Four hours lecture and six hours laboratory. Prerequisites: PSYC 311, and either PSYC 386 or 390. (6 units)

### **433. Experimental Psychology: Biological**

Introduction to the neural processes underlying brain function and behavior. Particular emphasis will be placed on neuroanatomy and the actions of drugs on brain and behavior. Students will receive practical training in advanced neuroscience techniques. Four hours lecture and six hours laboratory. Prerequisites: PSYC 311 and 363 or consent of instructor. (6 units)

### **434. Experimental Psychology: Social**

Methods, theories and empirical results of experimental social psychology in selected areas such as group dynamics, social perception, communication and attitudes. Four hours lecture and six hours laboratory. Prerequisites: PSYC 311 and 382. (6 units)

### **435. Experimental Psychology: Personality**

Empirical study of personality theories and the relationship of personality to behavior. Four hours lecture and six hours laboratory. Prerequisites: PSYC 311, 377 and 385. (6 units)

### **436. Experimental Psychology: Learning and Motivation**

Selected theories and research in areas of learning and motivation. Includes literature review and experimental analysis. Four hours lecture and six hours laboratory. Prerequisites: PSYC 311 and 362. (6 units)

### **437. Experimental Psychology: Cognition and Perception**

Empirical study of human information processing, memory, thought and perceptual processes. Four hours lecture and six hours laboratory. Prerequisites: PSYC 311 and either PSYC 360 or 364. (6 units)

### **438. Experimental Psychology: Industrial and Organizational**

Methods and empirical study of industrial-organizational psychology, in selected areas such as work motivation, performance evaluation, training techniques, and selection approaches. Four hours lecture and six hours laboratory. Prerequisites: PSYC 311, 377 and one of the following: MGMT 302, PSYC 302 or 355. (6 units)

### **442. Behavioral Neuroscience**

Intensive review of the neural mechanisms underlying behavior. Considerable emphasis is placed on sensory, motor, and homeostatic functioning. Higher-order functioning, including learning and memory, will also be covered. Prerequisite: HD 324, PSYC 324, or 363, or consent of instructor. (4 units)

### **538. Introduction to Psychopharmacology**

Examination of the basic pharmacological principles of psychoactive drugs. Particular emphasis is placed on neuronal functioning, mechanisms of drug action, and behavioral outcomes. Prerequisites: HD 324, PSYC 324, 333 or 363, or consent of instructor. (4 units)

### **540. Work, Retirement and Leisure**

Theory and research on work, retirement and leisure during the adult years. (Also offered as HD 540. Students may not receive credit for both.) Prerequisite: PSYC 100. (4 units)

### **575. Internship in Psychology**

Supervised work and study in private or public organizations. May be repeated once for credit. (Only four units of PSYC 575 may be applied to the psychology major.) Graded credit/no credit. Prerequisites: consent of instructor and department. (4 units)

### **581. Seminar in Industrial/Organizational Psychology**

Selected topics in industrial/organizational psychology. M.S. I/O option candidates are required to take all four topics. Same topic may not be repeated for credit. Prerequisites: upper-division or graduate standing in the M.S. in Psychology, I/O program and consent of department.

- A. Current Professional Issues (2 units)
- B. Organizational Leadership (2 units)
- C. Processes of Work Groups (2 units)
- D. Training and Executive Development (2 units)

### **595. Independent Study**

Special topics involving literature and/or experimental effort. A total of eight units of PSYC 595 may be applied toward graduation, of which a maximum of four units can be applied toward the upper-division requirements in the psychology major. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (2-4 units)

### **596. Practicum in Psychology: Peer Advising**

Theory, training, and practice in the basic knowledge, skills, and abilities involved in academic peer advising. One hour seminar, three hours practicum. A total of eight units may be applied toward graduation, of which a maximum of four units can be an upper-division elective in the psychology or human development major. Graded credit/no credit. An application must be submitted during the quarter prior to the quarter student plans to enroll. Prerequisites: consent of instructor and department. (2 units)

### **597. Honors Seminar**

Provides an opportunity for students to develop an independent project under faculty supervision. Students will meet as a class to discuss their projects, as well as various advanced topics. Enrollment is limited to students whose formal application for departmental honors is approved. (Also offered as HD 597. Students may not receive credit for both.) Prerequisites: PSYC 311 and consent of department. (4 units)

### **598. Honors Project**

Provides an opportunity for students to conduct an independent project under faculty supervision. Enrollment is limited to students whose formal application for departmental honors is approved. May not be used to satisfy the requirements of the psychology major.

- A. I. (Also offered as HD 598A. Students may not receive credit for both.) Prerequisites: PSYC 597 and consent of department. (2 units)
- B. II. (Also offered as HD 598B. Students may not receive credit for both.) Prerequisites: PSYC 598A and consent of department. (2 units)

# PUBLIC ADMINISTRATION

## Department of Public Administration

Jack Brown Hall, Room 456  
(909) 537-5758 <http://www.cbpa.csusb.edu/pa/>

**FACULTY:** David Baker, Chuck Christie (Emeritus), Michael Clarke (Emeritus), Joely De La Torre, Albert K. Karnig, Guenther Kress (Emeritus), Audrey Mathews (Emeritus), Anna Ni, Monty Van Wart (Chair), Clifford Young

The university offers a Masters in Public Administration. In addition, a concentration in public administration is available within the Bachelor of Arts in Administration. The details of these programs are listed under Administration on Page 72. The Master of Public Administration can be found on Page 490. The courses listed below are offered in support of these programs. Further information is available from the Department of Public Administration.

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### COURSE OFFERINGS IN PUBLIC ADMINISTRATION (PA)

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#### Upper Division

Enrollment in upper division courses restricted to students who have met all prerequisites and have completed at least 90 quarter units (junior class level). Students who do not meet these requirements will be disenrolled.

#### 305. Organizations in Multicultural and Diverse Societies

Integrative, multicultural exploration of the challenge of ensuring that business and government organizations as they pursue their economic or public policy missions also promote societal goals of democratic process and full inclusion of women and minorities. Examines the roles and powers of business and government organizations in meeting or failing to meet the rights and needs of citizens of all genders and ethnicities. Prerequisite: junior or senior standing. (GE=G2) (4 units)

#### 307. Public Relations in the Public Sector

Public relations as an inherent aspect of management in the public sector. Problems and techniques of administration of programs to manage and improve public relations. (4 units)

#### 315. Government-Business Relations

Description and analysis of government policies affecting business development at local, state and national levels. Discussion of major international trade treaties, trading blocs, and international financial institutions and the impact of globalization on government's involvement with business. (4 units)

#### 380. Introduction to Public Administration

An introduction to the purposes, methods and characteristics of public management, including organization of public services, roles and relationships of public administrators, accountability and the achievement of public goals. (Also offered as PSCI 380. Students may not receive credit for both.) (4 units)

#### 462. Public Personnel Administration

Definition, description and evaluation of government personnel systems; classification, compensation, recruitment, examination, training, working conditions, incentives, performance ratings, public employee organizations and organizational development in the public service. Prerequisite: PA 380. (4 units)

#### 463. Governmental Budgeting

Role of the budgetary process in government management, the public sector environment of budgeting, budget formulation and administration. (4 units)

#### 472. Administrative Law

Processes of administrative rule making, regulation, adjudication and appeal procedures; duties and liabilities of public officials, trends in regulation, overview of regulatory agencies. (4 units)

#### 473. Public Transportation Planning, Policy and Regulation

Study of the impacts of local, state and federal planning, policies, rules, regulations, and programs on surface, marine and air transportation systems. The focus is on interrelationships between business and the public sector in the strategic management of transportation applications. (4 units)

#### 490. Senior Assessment Seminar in Public Administration

This senior-level capstone course develops an overall general perspective on the field of public administration. It reviews and integrates knowledge from the Public Administration upper-division core and concentration courses. The class assesses and documents students' academic progress in the Public Administration concentration to demonstrate evidence of learning the core theories and practices of public administration as applied to topical areas. Prerequisites: senior standing, PA 307, 315, 380, 462, 463 and 472, or consent of instructor. (4 units)

#### 501. Administrative Leadership

Theory and practice of leading public sector organizations. Topics include leader traits, skills, styles, behaviors, development and evaluation. Formerly a topic under PA 590. (4 units)

#### 514. Management of Private Nonprofit Organizations

Analyzes the specific problems of management in private nonprofit organizations, including planning, personnel, financial and policy issues. (4 units)

#### 516. Public and Non-Profit Project Management

Aspects of project management, including needs and feasibility assessment, project design, proposal writing, contract negotiation, funding, developing project teams, managing team conflict, monitoring, and evaluation. Three hours lecture and two hours activity laboratory. (4 units)

#### 521. Principles of Planning

Introduction to local and regional community planning; includes methods of adoption and interorganizational relationships. (4 units)

#### 540. Introduction to Tribal Management and Governance

Roles, responsibilities and structure of tribal governments. The historical and legal underpinnings of the inter-governmental relations between the U.S. government and Indian tribes. Also explores relevant organization and management theories, concepts and tools as applied to the management of tribal governments. Formerly a topic under PA 590. (4 units)



**542. Tribal Government Gaming and Economic Development**

The historical and legal foundations and practices of tribal government gaming in the United States with particular attention focused on California. Includes an analysis of tribal governance, economic development, social and economic impacts of tribal government gaming. Formerly a topic under PA 590. (4 units)

**548. Management of Computers in the Public Sector**

Designed to help students gain competency in computer related skills. Each topic may be taken once for credit. Three hours lecture and two hours activity laboratory.

- A. Word Processing (4 units)
- B. Data Base Management (4 units)
- C. Spread Sheet (4 units)
- D. Communication (4 units)
- E. Networking (4 units)
- F. Special Problems (4 units)
- G. Geographic Information Systems (4 units)

**557. Public Sector Labor Relations**

Analyzes issues created by collective bargaining and unionism in public sectors. Examples: selection of bargaining agents, bargaining scope and obligation, impasse resolution and grievance procedure. (4 units)

**564. Local Public Administration**

Administrative characteristics and problems of public management in the urban area, including city, county, school and special district organization and functions. (4 units)

**568. Accounting for Government and Not-for-Profit Organizations**

Covers principles and practices of government fund accounting. Topics include governmental accounting concepts, types and structure of funds and accounts, application of generally accepted accounting principles to government and not-for-profit entities, presentation and uses of financial statements. (Also offered as ACCT 568. Students may not receive credit for both.) Prerequisite: ACCT 211 or 311. (4 units)

**575. Internship in Public Administration**

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

**590. Seminar in Public Administration**

An intensive study of some phase of public administration to be developed by the instructor. May be repeated for credit as topics change. (4 units)

**595. Independent Study**

Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (2 or 4 units)

# SOCIAL SCIENCES

## College of Social and Behavioral Sciences

Social and Behavioral Sciences Building, Room 207  
(909) 537-7500 <http://csbs.csusb.edu/>

### Bachelor of Arts

Social Sciences  
Multidisciplinary Track  
Credential Track

### Master of Arts

Social Sciences  
(Degree requirements can be found on Page 499.)

**COORDINATOR:** Carolyn Aldana

The social sciences major is designed for those students who either, wish to blend any three of the disciplines represented in the College of Social and Behavioral Sciences, or want to pursue the single subject teaching credential in social science, with an emphasis on History.

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## B.A. IN SOCIAL SCIENCES - MULTIDISCIPLINARY TRACK

### Requirements (62 to 65 units)

#### Total units required for graduation: 180

A minimum of 30 to 31 units (primary) in one of the following fields, plus 16 to 17 units each (secondary) in two others:

Anthropology  
Economics  
Ethnic Studies  
Geography  
History  
Political Science  
Psychology  
Sociology  
Women's Studies

Of the 30 to 31 units comprising the primary field, no more than twelve units may be from the lower-division courses. In each secondary field, no more than eight units may be from lower-division courses. Within the social sciences major, cross-listed courses cannot be counted both in a primary field and in a secondary field.

Those courses which will be required and allowed for use in this track, both in the primary and secondary fields, are listed below. It is the responsibility of both the student and the student's advisor to construct a program in line with these requirements. Once agreed to, the program is filed in the student's permanent folder in the Office of Records, Registration and Evaluations but is subject to revision by mutual consent. No more than 32 units may be selected from any one department.

### Requirements for the B.A. in Social Sciences - Multidisciplinary Track:

#### Anthropology

##### (Primary Field 30 units, Secondary Field 16 units)

Primary Field (30 units):

1. ANTH 100. Introduction to Anthropology: Human Evolution (4)
2. ANTH 102. Introduction to Anthropology: Culture and Society (4)
3. SSCI 499. Senior Seminar (2)

#### 4. Four units chosen from:

- ANTH 300. Archaeology (4)
- ANTH 302. African Archaeology (4)
- ANTH 303. Prehistory of the Middle East and Europe (4)
- ANTH 305. North American Prehistory (4)
- ANTH 306. Aztecs, Maya and Their Predecessors (4)
- ANTH 307. Incas and Their Predecessors (4)
- ANTH 312. Historical Archaeology (4)
- ANTH 315. Archaeology of the Southwest and California (4)
- ANTH 323. Native North American Art (4)
- ANTH 324. Pre-Columbian Art (4)

#### 5. Four units chosen from:

- ANTH 325. Human Biological Variation and the Concept of Race (4)
- ANTH 326. Human Origins (4)
- ANTH 327. Primate Evolution and Ecology (4)
- ANTH 328. Forensic Anthropology and Crime (4)

#### 6. Four units chosen from:

- ANTH 351. Indians of North America (4)
- ANTH 352. Indians of the Southwest (4)
- ANTH 354. Cultures of Mexico and Central America (4)
- ANTH 356. Cultures of South America (4)
- ANTH 357. African Societies (4)
- ANTH 358. Peoples of the Middle East (4)
- ANTH 360. Peoples of Australia (4)
- ANTH 361. Peoples of Micronesia, Melanesia and Polynesia (4)
- ANTH 362. Peoples of Asia (4)
- ANTH 365. Asian American Cultures (4)

#### 7. Eight units chosen from:

- ANTH 330. Cross-Cultural Child-Rearing Practices (4)
- ANTH 331. Anthropology of Human Development (4)
- ANTH 332. Cross-Cultural Perspectives on Aging (4)
- ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
- ANTH 334. Anthropology and Film (4)
- ANTH 335. Cross-Cultural Perspectives on Crime and Deviance (4)
- ANTH 375. Museum Methods (4)
- ANTH 380. Gender and Language (4)
- ANTH 388. Language and Culture (4)
- ANTH 466. Anthropology of Health, Illness and Healing (4)
- ANTH 470. Culture Change and Dynamics (4)
- ANTH 472. Colonial and Postcolonial Anthropology (4)
- ANTH 475. Cultural Ecology (4)
- ANTH 480. Magic, Religion and Science (4)
- ANTH 485. Applied Anthropology and Social Policy (4)
- ANTH 492. Economic Anthropology (4)
- ANTH 493. Urban Anthropology (4)
- ANTH 500. Great Ideas in Anthropology (4)

#### Secondary Field (16 units):

##### 1. Choose one of the following:

- ANTH 100. Introduction to Anthropology: Human Evolution (4)
- ANTH 102. Introduction to Anthropology: Culture and Society (4)

##### 2. Eight units chosen from:

- ANTH 300. Archaeology (4)
- ANTH 302. African Archaeology (4)
- ANTH 303. Prehistory of the Middle East and Europe (4)
- ANTH 305. North American Prehistory (4)
- ANTH 306. Aztecs, Maya and Their Predecessors (4)
- ANTH 307. Incas and Their Predecessors (4)
- ANTH 312. Historical Archaeology (4)
- ANTH 315. Archaeology of the Southwest and California (4)

- ANTH 320. Archaeological Survey and Excavation (5)  
 ANTH 323. Native North American Art (4)  
 ANTH 324. Pre-Columbian Art (4)  
 ANTH 325. Human Biological Variation and the Concept of Race (4)  
 ANTH 326. Human Origins (4)  
 ANTH 327. Primate Evolution and Ecology (4)  
 ANTH 328. Forensic Anthropology and Crime (4)  
 ANTH 330. Cross-Cultural Child-Rearing Practices (4)  
 ANTH 331. Anthropology of Human Development (4)  
 ANTH 332. Cross-Cultural Perspectives on Aging (4)  
 ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)  
 ANTH 334. Anthropology and Film (4)  
 ANTH 335. Cross-Cultural Perspectives on Crime and Deviance (4)  
 ANTH 351. Indians of North America (4)  
 ANTH 352. Indians of the Southwest (4)  
 ANTH 354. Cultures of Mexico and Central America (4)  
 ANTH 356. Cultures of South America (4)  
 ANTH 357. African Societies (4)  
 ANTH 358. Peoples of the Middle East (4)  
 ANTH 360. Peoples of Australia (4)  
 ANTH 361. Peoples of Micronesia, Melanesia and Polynesia (4)

- ANTH 362. Peoples of Asia (4)  
 ANTH 365. Asian American Cultures (4)  
 ANTH 375. Museum Methods (4)  
 ANTH 376. Exhibit Design (4)  
 ANTH 380. Gender and Language (4)  
 ANTH 388. Language and Culture (4)  
 ANTH 390. Selected Topics in Anthropology (4)  
 ANTH 391. Selected Topics in Anthropology (2)

3. Four units chosen from:

- ANTH 466. Anthropology of Health, Illness and Healing (4)  
 ANTH 470. Culture Change and Dynamics (4)  
 ANTH 472. Colonial and Postcolonial Anthropology (4)  
 ANTH 475. Cultural Ecology (4)  
 ANTH 480. Magic, Religion and Science (4)  
 ANTH 485. Applied Anthropology and Social Policy (4)  
 ANTH 492. Economic Anthropology (4)  
 ANTH 493. Urban Anthropology (4)  
 ANTH 500. Great Ideas in Anthropology (4)  
 ANTH 575. Internship in Anthropology (2-5)  
 ANTH 576. Internship in Museum Studies (2-5)  
 ANTH 577. Internship in Archaeology (2-5)  
 ANTH 578. Internship in Applied Cultural Anthropology (2-5)  
 ANTH 585. Fieldwork in Cultural Anthropology (4)  
 ANTH 590. Selected Topics in Anthropology (4)  
 ANTH 591. Selected Topics in Anthropology (2)  
 ANTH 595. Independent Study (2-5)

## Economics

### (Primary Field 30 units, Secondary Field 16 units)

#### Primary Field (30 units):

1. ECON 200. Principles of Microeconomics (4)
2. ECON 202. Principles of Macroeconomics (4)
3. ECON 500. History of Economic Thought (4)
4. SSCI 499. Senior Seminar (2)
5. Four units chosen from applied field courses:
  - ECON 360. Economics of the Environment (4)
  - ECON 410. Money and Banking (4)
  - ECON 430. International Economics (4)
  - ECON 435. Multinational Corporations (4)
  - ECON 460. Labor Economics (4)
  - ECON 475. Public Finance (4)

6. Four units chosen from political economy courses:

- ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)  
 ECON 352. Political Economy of Poverty and Discrimination (4)  
 ECON 357. Political Economy of Lesbian, Gay, Bisexual, and Transgendered People (4)  
 ECON 421. Economic History of the United States (4)  
 ECON 445. Political Economy (4)  
 ECON 450. Global Economy (4)  
 ECON 520. Social Economics (4)

7. Eight units of additional upper-division economics course work.

#### Secondary Field (16 units):

1. ECON 200. Principles of Microeconomics (4)
2. ECON 202. Principles of Macroeconomics (4)
3. Eight units of additional upper-division economics course work.

## Ethnic Studies

### (Primary Field 30 units, Secondary Field 16 units)

**Note:** No course can be used in a primary or secondary field which has been used in any other part of the Social Science major.

#### Primary Field (30 units)

1. ES 100. Ethnicity and Race in America (4)
2. ES 300. Research Methods in Ethnic Studies (4)
3. ES 394. Topics in Ethnic Studies (4)
4. SSCI 499. Senior Seminar (2)
5. Sixteen units chosen from:
  - ANTH 306. Aztecs, Maya, and Their Predecessors (4)
  - ANTH 307. Incas and Their Predecessors (4)
  - ANTH 323. Native North American Art (4)
  - ANTH 325. Human Biological Variation and the Concept of Race (4)
  - ANTH 330. Cross-Cultural Child-Rearing Practices (4)
  - ANTH 331. Anthropology of Human Development (4)
  - ANTH 332. Cross-Cultural Perspectives on Aging (4)
  - ANTH 333. Sex and Gender in Cross-Cultural Practices (4)
  - ANTH 335. Cross-Cultural Perspectives on Crime and Deviance (4)
  - ANTH 351. Indians of North America (4)
  - ANTH 352. Indians of the Southwest (4)
  - ANTH 357. African Societies (4)
  - ANTH 365. Asian American Cultures (4)
  - ANTH 388. Language and Culture (4)
  - ANTH 466. Anthropology of Health, Illness and Healing (4)
  - ECON 352. Political Economy of Poverty and Discrimination (4)
  - ES 595. Independent Study (1-4) for a total of (4)
  - HIST 340. African-American History, 1620-1865 (4)
  - HIST 341. African-American History, 1865-Present (4)
  - HIST 391. Chicano History (4)
  - HIST 565. Ethnic Minorities in American History (4)
  - HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
  - HIST 567. The Asian-American Experience (4)
  - PSYC 340. Stereotyping, Prejudice and Discrimination (4)
  - PSYC 345. Cross-Cultural Psychology (4)
  - SOC 410. Sociology of Race and Ethnicity (4)
  - SOC 425. Asian Americans: Origins and Ethnicity (4)
  - SOC 441. Black Social Stratification (4)
  - SOC 442. Chicano Social Stratification (4)
  - SOC 525. Indian Nations and Native America (4)

#### Secondary Field (16 units)

1. ES 100. Ethnicity and Race in America (4)
2. ES 394. Topics in Ethnic Studies (4)

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3. Eight units chosen from:
- ANTH 306. Aztecs, Maya, and Their Predecessors (4)
  - ANTH 307. Incas and Their Predecessors (4)
  - ANTH 323. Native North American Art (4)
  - ANTH 325. Human Biological Variation and the Concept of Race (4)
  - ANTH 330. Cross-Cultural Child-Rearing Practices (4)
  - ANTH 331. Anthropology of Human Development (4)
  - ANTH 332. Cross-Cultural Perspectives on Aging (4)
  - ANTH 333. Sex and Gender in Cross-Cultural Practices (4)
  - ANTH 335. Cross-Cultural Perspectives on Crime and Deviance (4)
  - ANTH 351. Indians of North America (4)
  - ANTH 352. Indians of the Southwest (4)
  - ANTH 357. African Societies (4)
  - ANTH 365. Asian American Cultures (4)
  - ANTH 388. Language and Culture (4)
  - ANTH 466. Anthropology of Health, Illness and Healing (4)
  - ECON 352. Political Economy of Poverty and Discrimination (4)
  - ES 595. Independent Study (1-4) for a total of (4)
  - HIST 340. African-American History, 1620-1865 (4)
  - HIST 341. African-American History, 1865-Present (4)
  - HIST 391. Chicano History (4)
  - HIST 565. Ethnic Minorities in American History (4)
  - HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
  - HIST 567. The Asian-American Experience (4)
  - PSYC 340. Stereotyping, Prejudice and Discrimination (4)
  - PSYC 345. Cross-Cultural Psychology (4)
  - SOC 410. Sociology of Race and Ethnicity (4)
  - SOC 425. Asian Americans: Origins and Ethnicity (4)
  - SOC 441. Black Social Stratification (4)
  - SOC 442. Chicano Social Stratification (4)
  - SOC 525. Indian Nations and Native America (4)

**Geography****(Primary Field 31 units, Secondary Field 16 to 17 units)**

Primary Field (31 units):

1. GEOG 100. Introduction to Human Geography (4)
2. GEOG 103. Physical Geography (5)
3. GEOG 420. Geography of Economic Activity (4)
4. SSCI 499. Senior Seminar (2)
5. Sixteen units of upper-division geography course work, except GEOG 300 or 311. Also, no more than eight of these sixteen units of upper-division elective course work can be an area study.

Secondary Field (16 or 17 units):

1. Choose one of the following:
  - GEOG 100. Introduction to Human Geography (4)
  - GEOG 103. Physical Geography (5)
2. GEOG 420. Geography of Economic Activity (4)
3. Eight units of upper-division geography course work, except GEOG 300 or 311. Also, only four of these eight units of upper-division elective course work can be an area study.

**History****(Primary Field 30 units, Secondary Field 16 units)**

Primary Field (30 units):

1. HIST 200. United States History to 1877 (4)  
or  
Eight units chosen from:
  - HIST 350. The American Colonies, 1607-1783 (4)
  - HIST 351. The Evolution of American Democracy, 1783-1840 (4)
  - HIST 354. Civil War and Reconstruction (4)

2. HIST 201. United States History, 1877 to the Present (4)  
or  
Eight units chosen from:
  - HIST 356. The United States, 1877-1917 (4)
  - HIST 357. The United States, 1917-1945 (4)
  - HIST 359. The United States Since 1945 (4)
3. HIST 305. Ancient and Medieval Europe (4)  
or  
Eight units as follows:
  - HIST 400. Early Medieval Europe (4)
  - HIST 401. Late Medieval Europe (4)
4. HIST 306. Early Modern Europe, the Renaissance to 1815 (4)  
or  
Eight units as follows:
  - HIST 402. Renaissance and Reformation (4)
  - HIST 403. The Age of Absolutism and Enlightenment (4)
5. HIST 307. Modern Europe, 1815 to the Present (4)  
or  
Eight units as follows:
  - HIST 503. Europe Since 1945 (4)
  - HIST 535. Studies in European National History (4)
6. SSCI 499. Senior Seminar (2)
7. Eight units of upper-division history course work.

Secondary Field (16 units):

1. Eight units of upper-division history course work and either Group 1 or 2 below:

**Group 1:**

1. HIST 200. United States History to 1877 (4)  
or  
Eight units chosen from:
  - HIST 350. The American Colonies, 1607-1783 (4)
  - HIST 351. The Evolution of American Democracy, 1783-1840 (4)
  - HIST 354. Civil War and Reconstruction (4)
2. HIST 201. United States History, 1877 to the Present (4)  
or  
Eight units chosen from:
  - HIST 356. The United States, 1877-1917 (4)
  - HIST 357. The United States, 1917-1945 (4)
  - HIST 359. The United States Since 1945 (4)

**Group 2:**

1. HIST 306. Early Modern Europe, the Renaissance to 1815 (4)  
or  
Eight units as follows:
  - HIST 402. Renaissance and Reformation (4)
  - HIST 403. The Age of Absolutism and Enlightenment (4)
2. HIST 307. Modern Europe, 1815 to the Present (4)  
or  
Eight units chosen from:
  - HIST 503. Europe Since 1945 (4)
  - HIST 535. Studies in European National History (4)

**Political Science****(Primary Field 30 units, Secondary Field 16 units)**

Primary Field (30 units):

1. PSCI 203. American Government (4)
2. PSCI 204. International Relations (4)
3. SSCI 499. Senior Seminar (2)
4. Twenty units of upper-division course work with at least four units from each of the following five fields:



**American Government and Politics**

Four units chosen from:

- PSCI 320. The Legislative Process (4)
- PSCI 326. Political Parties and Interest Groups (4)
- PSCI 428. Formulation of Public Policy (4)
- PSCI 431. The American Presidency (4)

**Comparative Government**

Four units chosen from:

- PSCI 300. Western Political Systems (4)
- PSCI 304. Communist Political Systems (4)
- PSCI 306. Developing Political Systems (4)

**International Relations**

Four units chosen from:

- PSCI 325. American Foreign Policy (4)
- PSCI 400. International Politics (4)
- PSCI 484. National Security Policy (4)
- PSCI 500. International Law (4)
- PSCI 510. International Organization (4)

**Political Theory**

Four units chosen from:

- PSCI 310. Classical Political Thought (4)
- PSCI 311. Foundations of Modern Political Thought (4)
- PSCI 313. Modern Political Thought (4)

**Public Law**

Four units chosen from:

- PSCI 328. Judicial Process (4)
- PSCI 410. American Constitutional Law (4)
- PSCI 411. The Bill of Rights (4)

Secondary Field (16 units):

1. PSCI 204. International Relations (4)
2. Twelve units of upper-division course work, four units chosen from three of the five fields listed below:

**American Government and Politics**

Four units chosen from:

- PSCI 320. The Legislative Process (4)
- PSCI 326. Political Parties and Interest Groups (4)
- PSCI 428. Formulation of Public Policy (4)
- PSCI 431. The American Presidency (4)

**Comparative Government**

Four units chosen from:

- PSCI 300. Western Political Systems (4)
- PSCI 304. Communist Political Systems (4)
- PSCI 306. Developing Political Systems (4)

**International Relations**

Four units chosen from:

- PSCI 325. American Foreign Policy (4)
- PSCI 400. International Politics (4)
- PSCI 484. National Security Policy (4)
- PSCI 500. International Law (4)
- PSCI 510. International Organization (4)

**Political Theory**

Four units chosen from:

- PSCI 310. Classical Political Thought (4)
- PSCI 311. Foundations of Modern Political Thought (4)
- PSCI 313. Modern Political Thought (4)

**Public Law**

Four units chosen from:

- PSCI 328. Judicial Process (4)
- PSCI 410. American Constitutional Law (4)
- PSCI 411. The Bill of Rights (4)

**Psychology****(Primary Field 31 units, Secondary Field 16 units)**

Primary Field (31 units):

1. PSYC 100. Introduction to Psychology (4)
2. PSYC 210. Psychological Statistics (5)
3. SSCI 499. Senior Seminar (2)
4. Eight units chosen from:
  - PSYC 201. Developmental Psychology (4)
  - PSYC 382. Psychology of Social Behavior (4)
  - PSYC 385. Personality (4)
  - PSYC 390. Abnormal Psychology (4)
5. Four units chosen from:
  - PSYC 360. Cognitive Psychology (4)
  - PSYC 362. Learning and Motivation (4)
  - PSYC 363. Biological Psychology (4)
  - PSYC 364. Perception (4)
6. Four units chosen from:
  - PSYC 315. Communication Processes (4)
  - PSYC 318. Health Psychology (4)
  - PSYC 351. Behavior Modification: Principles and Applications (4)
  - PSYC 355. Industrial Psychology (4)
  - PSYC 377. Tests and Measurements (4)
  - PSYC 386. Introduction to Psychotherapy (4)
  - PSYC 387. Community Psychology (4)
  - PSYC 575. Internship in Psychology (4)
7. Four units of upper-division psychology electives.

Secondary Field (16 units):

1. PSYC 100. Introduction to Psychology (4)
2. Four units chosen from:
  - PSYC 201. Developmental Psychology (4)
  - PSYC 382. Psychology of Social Behavior (4)
  - PSYC 385. Personality (4)
  - PSYC 390. Abnormal Psychology (4)
3. Four units chosen from:
  - PSYC 360. Cognitive Psychology (4)
  - PSYC 362. Learning and Motivation (4)
  - PSYC 363. Biological Psychology (4)
  - PSYC 364. Perception (4)
4. Four units chosen from:
  - PSYC 315. Communication Processes (4)
  - PSYC 318. Health Psychology (4)
  - PSYC 351. Behavior Modification: Principles and Applications (4)
  - PSYC 355. Industrial Psychology (4)
  - PSYC 377. Tests and Measurements (4)
  - PSYC 386. Introduction to Psychotherapy (4)
  - PSYC 387. Community Psychology (4)

**Sociology****(Primary Field 31 units, Secondary Field 16 units)**

Primary Field (31 units):

1. SOC 100. The Study of Society (4)
2. SOC 307. Social Research I (5)
3. Four units chosen from:
  - SOC 311. Sociological Theory (4)
  - SOC 360. Social Psychology (4)
4. SSCI 499. Senior Seminar (2)
5. Sixteen units of upper-division sociology electives.

Secondary Field (16 units):

1. SOC 100. The Study of Society (4)
2. SOC 360. Social Psychology (4)
3. Eight units of upper-division sociology electives.

**Women's Studies****(Primary Field 30 units, Secondary Field 16 units)**

**Note:** No course can be used in a primary or secondary field which has been used in any other part of the Social Science major.

**Primary Field (30 units)**

1. WSTD 100. Introduction to Women's Studies (4)
2. WSTD 420. Feminist Theory (4)
3. WSTD 425. Women as Agents of Social Change (4)
4. SSCI 499. Senior Seminar (2)
5. Sixteen units chosen from:
  - ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
  - CJUS 451. Women and Crime (4)
  - CJUS 462. Domestic Violence and the Criminal Justice System (4)
  - ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)
  - GEOG 330. Geography of Gender (4)
  - HIST 344. Women in U.S. History: 1620-1865 (4)
  - HIST 345. Women in U.S. History: 1865-Present (4)
  - PSCI 340. Sex and Politics (4)
  - PSYC 331. The Psychology of Women (4)
  - PSYC 349. The Psychology of Gays and Lesbians (4)
  - PSYC 341. Women and Violence (4)
  - SOC 336. Black Women and Feminism (4)
  - SOC 444. Sociology of Gender (4)
  - WSTD 103. Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (4)
  - WSTD 300. Feminist Research Methods (4)
  - WSTD 390. Topics in Women's Studies (4)
  - WSTD 450. Queer Theory (4)
  - WSTD 575. Internship in Women's Programs and Services (2) for a total of (4)
  - WSTD 595. Independent Study (2-5) for a maximum of (8)

**Secondary Field (16 units)**

1. WSTD 100. Introduction to Women's Studies (4)
2. WSTD 425. Women as Agents of Social Change (4)
3. Eight units chosen from:
  - ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
  - CJUS 451. Women and Crime (4)
  - CJUS 462. Domestic Violence and the Criminal Justice System (4)
  - ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)
  - GEOG 330. Geography of Gender (4)
  - HIST 344. Women in U.S. History: 1620-1865 (4)
  - HIST 345. Women in U.S. History: 1865-Present (4)
  - PSCI 340. Sex and Politics (4)
  - PSYC 331. The Psychology of Women (4)
  - PSYC 349. The Psychology of Gays and Lesbians (4)
  - PSYC 341. Women and Violence (4)
  - SOC 336. Black Women and Feminism (4)
  - SOC 444. Sociology of Gender (4)
  - WSTD 103. Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (4)
  - WSTD 300. Feminist Research Methods (4)
  - WSTD 390. Topics in Women's Studies (4)
  - WSTD 450. Queer Theory (4)
  - WSTD 575. Internship in Women's Programs and Services (2) for a total of (4)
  - WSTD 595. Independent Study (2-5) for a maximum of (8)

**B.A. IN SOCIAL SCIENCES -  
CREDENTIAL TRACK****Requirements (101-102 units)****Total units required for graduation: 180**

Students who wish to teach social science subjects in California's secondary schools have two primary ways in which they can be accepted as "highly qualified" teachers as required by federal No Child Left Behind guidelines. First, they can pass the California Subject Examination for Teachers (CSET), which encompasses knowledge of history, geography, economics, and political science. Passing this exam means that the prospective teacher is considered to be "highly qualified" in each of these four disciplines. Alternatively, students may complete the B.A. in Social Sciences, Credential Track, a California-approved waiver program. The core discipline in the program is history, as that is the most widely taught social science subject in secondary schools. In addition to this concentration, students have options in the other three disciplines of geography, economics, or political Science. Any of these options would add 32-37 units to the 101-102 units needed for the core history program.

Students in the program are encouraged to take the CSET exam as that would provide maximum flexibility for teaching social sciences at the secondary level. Completing the B.A. in Social Science-Credential Track should provide considerable knowledge for doing well on this exam. Students in the Credential Track are encouraged to see their Social Science advisor early in their program for assistance in choosing courses. For information about the professional education component or admission to the teacher education program, contact the Credentials Office, CE-102.

**Requirements for the B.A. in Social Sciences -  
Credential Track:****Lower-division requirements (47 units)**

1. Four units chosen from:
  - ANTH 140. World Civilizations I, the Rise of Civilization (4)
  - HIST 140. World Civilizations I, the Rise of Civilization (4)
2. ECON 200. Principles of Microeconomics (4)
3. ECON 202. Principles of Macroeconomics (4)
4. ESEC 200. Introduction to Careers in Education (2)
5. GEOG 100. Introduction to Human Geography (4)
6. GEOG 103. Physical Geography (5)
7. HIST 142. World Civilizations II, the Civilizations of the East and West (4)
8. HIST 144. World Civilizations III, the Expansion of Europe (4)
9. HIST 200. United States History to 1877 (4)
10. HIST 201. United States History, 1877 to the Present (4)
11. Four units chosen from:
  - PHIL 192. Introduction to Philosophy of Religion (4)
  - PHIL 193. Introduction to Eastern Philosophy (4)
12. PSCI 203. American Government (4)

**Upper-division requirements (54-55 units)**

1. GEOG 302. Geography of California (4)
2. HIST 370. History of California (4)
3. HIST 394. Introduction to History (4)
4. Four units chosen from:
  - HIST 305. Ancient and Medieval Europe (4)
  - HIST 306. Early Modern Europe, the Renaissance to 1815 (4)
  - HIST 307. Modern Europe, 1815 to the Present (4)
5. Four units chosen from:
  - HIST 320. History of Ancient Greece (4)
  - HIST 321. History of Rome (4)
  - HIST 400. Early Medieval Europe (4)

- HIST 401. Late Medieval Europe (4)  
 HIST 402. Renaissance and Reformation (4)  
 HIST 403. The Age of Absolutism and Enlightenment (4)
6. Eight units chosen from:  
 HIST 383. Classical Islamic Civilization (4)  
 HIST 384. Modern Middle East (4)  
 HIST 385. Africa to 1500 (4)  
 HIST 386. Africa 1500 to 1870 (4)  
 HIST 387. Africa 1870 to Present (4)  
 HIST 390. History of Modern Mexico (4)  
 HIST 426. Early Imperial China (4)  
 HIST 428. Medieval China (4)  
 HIST 430. China, 1895-Present (4)  
 HIST 432. Communist China (4)  
 HIST 434. East Asia Since World War II (4)  
 HIST 440. Japan, 1868-Present (4)  
 HIST 450. History of South Africa (4)  
 HIST 465. Modern Central America (4)  
 HIST 466. Foreign Relations of Latin America (4)  
 HIST 467. Latin American History Through Film (4)  
 HIST 469. Colonial Latin America (4)  
 HIST 470. Modern Latin America (4)  
 HIST 487. Topics in Modern Middle Eastern History (4)
7. Eight units chosen from:  
 HIST 350. The American Colonies, 1607-1783 (4)  
 HIST 351. The Evolution of American Democracy, 1783-1840 (4)  
 HIST 354. Civil War and Reconstruction (4)  
 HIST 356. The United States, 1877-1917 (4)  
 HIST 357. The United States, 1917-1945 (4)  
 HIST 359. The United States Since 1945 (4)  
 HIST 540. Constitutional History of the United States (4)  
 HIST 556. Foreign Relations of the United States (4)
8. PSCI 330. State and Local Politics (4)
9. Four units chosen from:  
 HUM 335. The Origin and Contemporary Role of Latino Culture (4)  
 HUM 350. The Cultures of American Childhood (4)  
 HUM 370. African Heritage in the Arts (4)  
 HUM 375. The World of Islam (4)  
 HUM 380. Comparative Studies in the Arts: East and West (4)
10. Four units chosen from:  
 PSCI 320. The Legislative Process (4)  
 PSCI 326. Political Parties and Interest Groups (4)  
 PSCI 428. Formulation of Public Policy (4)  
 PSCI 431. The American Presidency (4)
11. SSCI 499. Senior Seminar (2)

#### Data Collection and Analysis (4 units)

1. A minimum of four units chosen from:  
 ECON 250. Statistics for Economists (4)  
 GEOG 305. Geographical Statistics and Research Methods (4)  
 PSYC 210. Psychological Statistics (5)  
 SCM 210. Applied Business Statistics (4)

Students who complete this track for the Social Sciences Credential Option will meet the requirements for a Social Science subject matter waiver, as well as meeting the No Child Left Behind criteria to be designated a highly qualified teacher of History, based on the completion of 48 units of coursework in that field.

#### Disciplinary Options

Students who wish to be considered a highly qualified teacher in another discipline should complete the coursework listed below in addition to those taken above (for a combined total of 48 units):

#### Economics Option (37 units)

1. ECON 335. Economic Analysis with Microcomputers (5)  
 2. ECON 500. History of Economic Thought (4)  
 3. ECON 510. Economics in the Classroom (4)  
 4. Four units chosen from:  
 ECON 333. Political Economy of Women: Money, Sex, Race and Power (4)  
 ECON 352. Political Economy of Poverty and Discrimination (4)  
 ECON 357. The Political Economy of Lesbians, Gays, Bisexual, and Transgendered People (4)  
 ECON 435. Multinational Corporations (4)  
 ECON 445. Political Economy (4)  
 ECON 450. Global Economy (4)
5. Four units chosen from:  
 ECON 360. Economics of the Environment (4)  
 ECON 372. Business Cycles (4)  
 ECON 390. Selected Topics in Economics (4)  
 ECON 410. Money and Banking (4)  
 ECON 430. International Economics (4)  
 ECON 475. Public Finance (4)
6. Sixteen units of upper-division Economics courses.

#### Geography Option (32 units)

1. GEOG 312. Geography of the Developing World (4)  
 2. GEOG 313. Geography of the Developed World (4)  
 3. GEOG 320. Geography of Social Issues (4)  
 4. GEOG 322. United States and Mexican Border Issues (4)  
 5. GEOG 323. Area Study: North America (4)  
 6. GEOG 350. Conservation and Natural Resources (4)  
 7. GEOG 420. Geography of Economic Activity (4)  
 8. Four units chosen from:  
 GEOG 415. Urban Planning and Land Development (4)  
 GEOG 440. Understanding the City (4)

#### Political Science Option (36 units)

1. PSCI 204. International Relations (4)  
 2. PSCI 314. American Political Thought (4)  
 3. Four units chosen from:  
 PSCI 300. Western Political Systems (4)  
 PSCI 304. Communist Political Systems (4)  
 PSCI 306. Developing Political Systems (4)  
 PSCI 308. Government and Politics of the Middle East (4)
4. Four units chosen from:  
 PSCI 310. Classical Political Thought (4)  
 PSCI 311. Foundations of Modern Political Thought (4)  
 PSCI 313. Modern Political Thought (4)  
 PSCI 315. Post Modern Political Thought (4)
5. Four units chosen from:  
 PSCI 328. Judicial Processes (4)  
 PSCI 410. American Constitutional Law (4)  
 PSCI 411. The Bill of Rights (4)  
 PSCI 412. Civil Rights (4)
6. Four units chosen from:  
 PSCI 325. American Foreign Policy (4)  
 PSCI 400. International Politics (4)  
 PSCI 500. International Law (4)  
 PSCI 510. International Organization (4)
7. Eight units chosen from:  
 PSCI 530. Studies in Political Theory (4)  
 PSCI 535. Seminar in Constitutional Law (4)  
 PSCI 540. Seminar in Comparative Politics (4)  
 PSCI 590. Seminar in International Relations (4)  
 PSCI 592. Seminar in Government (4)
8. Four units of upper division Political Science courses.

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**COURSE OFFERINGS IN  
SOCIAL SCIENCES (SSCI)**

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Many of the courses listed below are offered as part of the university's general education program. Some are offered in support of other degree programs.

**Lower Division****165. Regions and Peoples of the World**

Survey of major regions of the world using general physical and cultural concepts to explain patterns and problems of human activities in relation to natural environments. (GE=D3) (4 units)

**Upper Division****300. Nonwestern World**

Historical, political, social, geographic and economic aspects of non-western societies. Prerequisite: junior or senior standing. (GE=D5) (4 units)

**304. Contemporary Latin America**

Social, economic and political conditions and institutions in contemporary Latin America. Prerequisite: junior or senior standing. (GE=D5) (4 units)

**306. Expository Writing for the Social Sciences**

Writing on topics related to the social sciences, including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. No more than one of the expository writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly SSCI 495. Graded A, B, C/no credit. Prerequisites: ENG 101 and a minimum of 90 quarter (60 semester) units of college credit. (GE=F1) (4 units)

**309. Family, School and Culture**

An overview of family, culture and social stratification and the implications of such for educational settings (including curriculum content and instructional practices). Home-school relations will be discussed. Skills needed for effective communication with diverse families and communities will be included. Five hours field work component required. Prerequisites: EELB 310 and HD 315. (3 units)

**315. Cultural Adaptation: The Quest for Survival**

An interdisciplinary inquiry into diverse cultural solutions to universal human problems. Topics include alternative cultural provisions for satisfying economic, social, political and religious needs. Prerequisite: junior or senior standing. (GE=D5) (4 units)

**316. Race and Racism**

An interdisciplinary and cross-cultural examination of the concepts of race, ethnic group, prejudice and racism which includes studies of changing prejudiced attitudes. Prerequisite: junior or senior standing. (GE=D5, G1) (4 units)

**320. Understanding Capitalism**

Exploration into the origins and nature of capitalism. Focus on the historical development and contemporary structure of the social, political and economic institutions of capitalism. Prerequisite: junior or senior standing. (GE=D5) (4 units)

**321. Urbanization and the Urban Environment**

Patterns and processes of urban growth. Major emphasis on reasons for growth of cities; economic, social, political and structural changes in urban areas which accompany urbanization; and a cross-cultural analysis of urban problems. Prerequisite: junior or senior standing. (GE=D5) (4 units)

**325. Perspectives on Gender**

This interdisciplinary course uses scientific, humanistic, and social science perspectives to foster an understanding of how gender roles in Western culture are established, maintained and changed. (Also offered as HUM 325 and NSCI 325. Students may receive credit for only one of these courses.) Prerequisite: junior or senior standing. (GE=D5, G1) (4 units)

**345. Religious Expression in America**

Interdisciplinary social science analysis of the relationship among religious belief, religious practices and secular society in American culture. Prerequisite: junior or senior standing. (GE=D5) (4 units)

**350. Roots of Modern Racism in America**

An interdisciplinary exploration of the roots of modern racism in America in the decades following the Civil War. The course will focus on the experiences of ethnic men and women and on the concurrent anti-Semitic, anti-Catholic and Americanization movements. The course will focus on the dynamics of these intergroup relations and their legacy for contemporary America. Prerequisite: junior or senior standing. (GE=D5, G1) (4 units)

**499. Senior Seminar**

Assessment of the student's academic progress through the preparation and submission of a portfolio of completed course work. Students also compose a reflective essay covering courses taken and complete an exit survey on their academic experience in the major. Graded Credit/no credit. Prerequisite: senior standing. (2 units)

**515. Model United Nations**

An analysis of the role of the United Nations in world politics to prepare students for the national Model United Nations competition. May be repeated for credit. A total of eight units may be applied towards graduation. Formerly PSCI 515. (4 units)

**516. Model Arab League**

An analysis of the role of the Arab League in world politics to prepare students for the national Model Arab League competition. May be repeated for credit. A total of eight units may be applied towards graduation. (4 units)

**590. Seminar in the Social Sciences**

An intensive study of various multidisciplinary issues within the social sciences. May be repeated for credit as topics change. A total of eight units may be applied toward graduation. (4 units)



# SOCIAL WORK

Accredited by the Council on Social Work Education

## Department of Social Work

Social and Behavioral Sciences Building, Room 423  
(909) 537-5501 <http://socialwork.csusb.edu/>

### Bachelor of Arts

Social Work

### Master of Social Work

(Degree requirements can be found on Page 501.)

### Credential

Pupil Personnel Services Credential: Social Work  
(Credential requirements can be found on Page 419.)

**FACULTY:** Patsy Andrada, Janet Chang, Thomas Davis,  
Ray Liles, Paulina Martinez, Rosemary McCaslin,  
Teresa Morris (Chair), Herb Shon, Laurie Smith

## B.A. IN SOCIAL WORK

### Requirements (74 units)

#### Total units required for graduation: 180

The Department of Social Work offers courses leading to the Bachelor of Arts in Social Work. This degree prepares baccalaureate students for generalist social work practice and equips them to work in agency settings with individuals, families, groups and communities who are encountering problems related to personal or social circumstance. The program is accredited by the Council on Social Work Education, the national accrediting body for social work programs. The program is intensive and exciting and applies to a wide variety of social work client populations.

Students must apply to the Department of Social Work for admission into the B.A. in Social Work.

### Admission Requirements

1. Completion of application packet including personal statement of commitment to the social work profession, two references, and transcripts; (Contact the Department of Social Work for more information.)
2. Completion of all lower division General Education requirements with an overall grade point average of 2.0 ("C") or better;
3. Completion of additional lower division requirements with a grade of "C" or better;

### General Education requirements to enter the B.A. in Social Work:

Basic Skills in Written Communication (A1)

1. One of the following:  
ENG 101. Freshman Composition

Basic Skills in Oral Communication (A2)

1. One of the following:  
COMM 120. Oral Communication

Basic Skills in Mathematics (A3)

1. One of the following:  
MATH 110. College Algebra  
MATH 115. The Ideas of Mathematics  
MATH 120. Pre-Calculus Mathematics  
MATH 192. Methods of Calculus  
MATH 211. Basic Concepts of Calculus

Basic Skills in Critical Thinking (A4)

1. One of the following:  
PSYC 105. Critical Thinking Through Problem Analysis  
SOC 180. Critical Thinking About Social Problems

Natural Sciences Breadth Area (B2)

1. BIOL 100. Topics in Biology

Humanities Breadth Area (C3)

1. SPAN 150. Intermediate Spanish

Social and Behavioral Sciences Breadth Area (D4)

1. PSYC 100. Introduction to Psychology  
2. SOC 100. The Study of Society

### Additional Lower Division Requirements to enter the

#### B.A. in Social Work:

1. SW 200. Introduction to Social Work
2. One of the following:  
ECON 250. Statistics for Economists  
PSYC 210. Psychological Statistics  
SCM 210. Applied Business Statistics
3. CJUS 101. Introduction to the Criminal Justice System

### Department Regulations

1. Students must attain grades of "C" or better in all courses required for the major from the department in order to progress in the program.

### Requirements for the B.A. in Social Work:

Upper-division requirements (66 units)

1. Four units chosen from the following (which also meets the Multicultural/Gender Requirement (G1)  
HUM 325. Perspectives on Gender (4)  
NSCI 325. Perspectives on Gender (4)  
SSCI 316. Race and Racism (4)  
SSCI 325. Perspectives on Gender (4)  
SSCI 350. Roots of Modern Racism in America (4)
2. Four units chosen from:  
PSYC 390. Abnormal Psychology (4)  
PSYC 391. Psychopathology of Children (4)
3. Four units chosen from:  
PSYC 382. Psychology of Social Behavior (4)  
SOC 339. Socialization (4)  
SOC 360. Social Psychology (4)
4. Four units chosen from:  
PSCI 380. Introduction to Public Administration (4)  
PA 380. Introduction to Public Administration (4)
5. SW 300A. Social Welfare Policy I (4)
6. SW 300B. Social Welfare Policy II (4)
7. SW 301. Social Work Research (6)
8. SW 302A. Human Behavior and the Social Environment I (4)
9. SW 302B. Human Behavior and the Social Environment II (4)
10. SW 400A. Social Work Practice: Individuals (4)
11. SW 400B. Social Work Practice: Groups (4)
12. SW 400C. Social Work Practice: Organizations and Communities (4)
13. SW 401A. Field Work I (4)
14. SW 401B. Field Work II (4)
15. SW 401C. Field Work III (4)
16. SW 590. Special Topics (4)

**316 / Social Work**

Discipline requirements (8 units)

Courses taken to satisfy upper-division requirements cannot count toward the eight units for the discipline requirement.

1. Eight units in one of the following disciplines

**Criminal Justice**

- CJUS 370. Law and the Courts (4)
- CJUS 460. Alcohol, Drugs and the Criminal Justice System (4)
- CJUS 462. Domestic Violence and the Criminal Justice System (4)
- CJUS 465. Hate Crime Law and Policy (4)

**Economics**

- ECON 333. Political Economy of Women: Money, Sex and Power (4)
- ECON 352. Political Economy of Poverty and Discrimination (4)
- ECON 357. Political Economy of Lesbian, Gay, Bisexual and Transgendered People (4)
- ECON 445. Political Economy (4)
- ECON 520. Social Economics (4)

**Human Development**

- HD 305. Multicultural Child Development (4)
- HD 324. Developmental Psychobiology (4)
- HD 372. Psychology of Death and Dying (4)

**Political Science**

- PSCI 330. State and Local Politics (4)
- PSCI 428. Formulation of Public Policy (4)

**Psychology**

- PSYC 303. Parenting and Family Relations (4)
- PSYC 320. Psychology of Middle Childhood (4)
- PSYC 328. Psychology of Adolescent Development (4)
- PSYC 329. Psychology of Adulthood and Aging (4)
- PSYC 351. Behavior Modification: Principles and Applications (4)
- PSYC 386. Introduction to Psychotherapy (4)
- PSYC 387. Community Psychology (4)

**Sociology**

- SOC 340. Sociology of the Family (4)
- SOC 343. Sociology of Family Violence (4)
- SOC 410. Sociology of Race and Ethnicity (4)
- SOC 440. Social Class (4)
- SOC 442. Chicano Social Stratification (4)

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**COURSE OFFERINGS IN  
SOCIAL WORK (SW)**

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**Lower Division****200. Introduction to Social Work**

Introductory survey of levels of social work practice and fields of practice. Review of NASW professional code of ethics and social work resources. (4 units)

**Upper Division****300. Social Welfare Policy**

- A. I: History of social work, development of structures of social welfare services and the role of policy in service delivery. Prerequisite: admission to B.A. in Social Work. (4 units)
- B. II: Frameworks for policy analysis of social welfare policies and social service delivery in organizational, local, state, national and international settings. Introductory social work policy practice skills. Prerequisite: SW 300A. (4 units)

**301. Social Work Research**

Social Work approaches to qualitative and quantitative research that builds knowledge for social work practice. Interpreting and applying social work practice research to students' own practice. Skills needed to implement a social work research project in a social work setting. Four hours lecture and six hours laboratory. Prerequisite: admission to B.A. in Social Work. (6 units)

**302. Human Behavior and the Social Environment**

- A. I: Theories and knowledge of human bio-psycho-social development from birth to young adulthood, including theories and knowledge about the range of social systems in which individuals live (families, groups, organizations, institutions and communities). Interactions between and among human biological, social, psychological and cultural systems as they affect and are affected by human behavior. Prerequisite: admission to B.A. in Social Work. (4 units)
- B. II: Theories and knowledge of human bio-psycho-social development in relation to adulthood and aging. Includes theories and knowledge about the range of social systems in which individuals live (families, groups, organizations, institutions and communities). Interactions between and among human biological, social, psychological and cultural systems as they affect and are affected by human behavior. Prerequisite: SW 302A. (4 units)

**320. Child Welfare Services**

Public child welfare services and issues from a beginning generalist perspective. Prepares social work students for beginning level evidence-based, culturally competent, family-focused, strength-based, and outcome-oriented child welfare practice. Prerequisite: admission to B.A. in Social Work. (4 units)

**325. Social Work Interventions in Substance Abuse**

A comprehensive and systems-based examination of substance abuse and dependence. Prepares students with beginning skills for effective substance abuse intervention. Formerly a topic under SW 590. (4 units)

**400. Social Work Practice**

- A. Individuals. Theories, models and skills for social work interventions with individuals using a generalist model of social work practice. Designed to run concurrently with the field placement education. Prerequisites: admission to B.A. in Social Work, completion of all courses below the 400-level and consent of instructor. (4 units)
- B. Families and Groups. Theories, models and skills for social work interventions with families and groups using a generalist model of social work practice. Designed to run concurrently with the field placement education. Prerequisites: SW 400A and consent of instructor. (4 units)
- C. Organizations and Communities. Theories, models and skills for social work interventions with organizations and communities using a generalist model of social work practice. Designed to run concurrently with the field placement education. Prerequisites: SW 400B and consent of instructor. (4 units)

**401. Field Work**

Practice experience in public and private social service agencies with individuals, families, groups, formal organizations and communities. Graded credit/no credit. Prerequisites: admission to B.A. in Social Work, completion of all courses below the 400-level and consent of instructor.

- A. Field Work I. Field placement hours (160) and monthly seminar. (4 units)
- B. Field Work II. Field placement hours (160) and monthly seminar. Prerequisite: SW 401A. (4 units)
- C. Field Work III. Field placement hours (160) and monthly seminar. Prerequisite: SW 401B. (4 units)

**590. Special Topics**

Special topics in social work. May be repeated for credit with consent of instructor as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

**595. Independent Study**

Special topics involving library and/or field research. May be repeated for credit. Prerequisite: consent of instructor. (1-4 units)

**597. Social Work Honors Project**

Original in-depth research in an area of social work practice. Prerequisites: admission to B.A. in Social Work, completion of SW 301 and consent of instructor. (4 units)

# SOCIOLOGY

## Department of Sociology

Social and Behavioral Sciences Building, Room 327  
(909) 537-5541 <http://csbs.csusb.edu/sociology/>

### Bachelor of Arts

- Sociology
- Sociology - Social Service

### Minor

- Sociology

### Certificate Programs

- Gerontology
- Social Services

**FACULTY:** Zeng-Yin Chen, David Decker (Emeritus), James Fenelon, John Heeren (Emeritus), Patricia Little, Marcia Marx, Tom Meisenholder (Emeritus), Randi Miller (Chair), Julian Montoro-Rodriguez, Salvador Murguia, Cliff Paynton (Emeritus), Mary Teixeira, Elsa Valdez

The sociology major offers a balanced program of study for students interested in pursuing graduate study or in the practical application of sociology. The curriculum is designed to expose the student to the scope and methods of sociology and to provide a broad educational background for understanding the structure and functioning of modern society.

The department also offers an alternate program of study for students interested in pursuing a career in the social sciences area and for those interested in enrolling in an M.S.W. graduate program.

As an adjunct to the curriculum, there are two student organizations for sociology majors. The Sociology Club has a varied program of social, community service and academically oriented activities. In addition to general sociology majors, students in human services and students in social services actively participate in the club. A chapter of Alpha Kappa Delta, the sociology honor society, is open to junior sociology majors with a 3.5 grade point average and to seniors and graduate students with a 3.0 grade point average.

## B.A. IN SOCIOLOGY

### Requirements (62 units)

#### Total units required for graduation: 180

### Requirements for the B.A. in Sociology:

1. SOC 100. The Study of Society (4)
2. SOC 301. Applications in Sociology (4)
3. SOC 307. Social Research I (5)
4. SOC 309. Social Research II (5)
5. SOC 311. Sociological Theory (4)
6. SOC 590. Seminar in Sociology (4)
7. Thirty-six additional units in sociology, 32 of which must be upper-division. Students must choose at least two courses from each of the concentrations listed below. Credit for a course may be granted for only one category.

#### Social Inequality

- SOC 336. Black Women and Feminism (4)
- SOC 341. Marriage and Family Among Blacks (4)
- SOC 342. The Chicano Family (4)
- SOC 343. Sociology of Family Violence (4)
- SOC 382. Sociology of Developing Societies (4)
- SOC 410. Sociology of Race and Ethnicity (4)
- SOC 418. Sociology of Social Welfare (4)

- SOC 425. Asian Americans: Origins and Ethnicity (4)
- SOC 430. Urban Sociology (4)
- SOC 440. Social Class (4)
- SOC 441. Black Social Stratification (4)
- SOC 442. Chicano Social Stratification (4)
- SOC 444. Sociology of Gender (4)
- SOC 525. Indian Nations and Native America (4)

#### Social Control

- SOC 343. Sociology of Family Violence (4)
- SOC 350. Criminology (4)
- SOC 352. Juvenile Offender (4)
- SOC 354. Deviant Behavior (4)
- SOC 356. Sociology of Mental Illness (4)
- SOC 432. Political Sociology (4)
- SOC 450. White Collar Crime (4)
- SOC 484. Social Casework (4)

#### Community, Institutions and Social Processes

- SOC 330. Gerontology (4)
- SOC 339. Socialization (4)
- SOC 340. Sociology of the Family (4)
- SOC 341. Marriage and Family Among Blacks (4)
- SOC 342. The Chicano Family (4)
- SOC 355. Medical Sociology (4)
- SOC 360. Social Psychology (4)
- SOC 363. Sociology of Mass Media (4)
- SOC 380. Sociology of Religion (4)
- SOC 418. Sociology of Social Welfare (4)
- SOC 430. Urban Sociology (4)
- SOC 432. Political Sociology (4)
- SOC 434. Community Organization (4)
- SOC 436. Group Dynamics (4)
- SOC 540. Sociology of Education (4)

The sociology major calls for following a sequence through the required core courses of the discipline. After taking the introductory course, students should complete SOC 301, to be followed by the methods courses (SOC 307 and 309) and theory (SOC 311). SOC 590 is intended as a capstone experience and should be taken at the end of one's college career. In addition to these core courses, 36 units of electives complete the major requirements. To insure a broad understanding of the major research areas in the discipline of Sociology, students must take at least two courses from each of the concentrations listed above.

Beyond meeting this breadth requirement in elective courses, concentrating in the areas above provides a deeper understanding of the subarea, preparing the way for further research at the undergraduate or graduate level or for working in a related occupation after graduating. In addition to these concentrations, students are encouraged to develop, in consultation with their departmental advisor, a program of elective courses that is relevant to their future plans.

## B.A. IN SOCIOLOGY -

## SOCIAL SERVICE TRACK

### Requirements (62 units)

#### Total units required for graduation: 180

Students majoring in sociology may wish to pursue a course of study that will provide them with appropriate training for working in social service agencies. This track, which generally overlaps with the sociology major requirements, requires that the core courses in sociology be taken. The elective course requirements (at least 36 units) should be met in the categories of Social Service Policy and Practice, Applications in Social Service and the Capstone Experience.



**Requirements for the B.A. in Sociology - Social Service Track:****Sociology Core (22 units)**

1. SOC 100. The Study of Society (4)
2. SOC 301. Applications in Sociology (4)
3. SOC 307. Social Research I (5)
4. SOC 309. Social Research II (5)
5. SOC 311. Sociological Theory (4)

**Social Service Policy and Practice (12 units)**

1. Twelve units chosen from:
  - SOC 418. Sociology of Social Welfare (4)
  - SOC 434. Community Organization (4)
  - SOC 436. Group Dynamics (4)
  - SOC 484. Social Casework (4)

**Social Structures and Processes (12 units)**

1. Four units chosen from:
  - SOC 339. Socialization (4)
  - SOC 360. Social Psychology (4)
2. Four units chosen from:
  - SOC 340. Sociology of the Family (4)
  - SOC 341. Marriage and Family Among Blacks (4)
  - SOC 342. The Chicano Family (4)
3. Four units chosen from:
  - SOC 410. Sociology of Race and Ethnicity (4)
  - SOC 440. Social Class (4)
  - SOC 441. Black Social Stratification (4)
  - SOC 442. Chicano Social Stratification (4)
  - SOC 444. Sociology of Gender (4)

**Applications in Social Services (8 units)**

1. Eight units chosen from:
  - SOC 330. Social Gerontology (4)
  - SOC 343. Sociology of Family Violence (4)
  - SOC 352. Juvenile Offender (4)
  - SOC 354. Deviant Behavior (4)
  - SOC 355. Medical Sociology (4)
  - SOC 356. Sociology of Mental Illness (4)
  - SOC 540. Sociology of Education (4)

Approved upper-division courses from Health Science, Psychology, and Social Work may be substituted for these units chosen in consultation with department advisor.

**Capstone Experience (8 units)**

Students must choose either A or B

- A. SOC 575. Internship in Sociology (4) or one additional sociology elective from those not chosen in a previous category and in consultation with department advisor.
- SOC 590. Seminar in Sociology (4)
- B. SOC 575. Internship in Sociology (4) for a total of (8)

**MINOR IN SOCIOLOGY****Requirements (28 units)****Requirements for a minor in Sociology:**

1. Twenty-eight units in sociology course work chosen with the consent of a departmental advisor. Eight of these units may be at the lower-division level.

**DEPARTMENTAL HONORS**

Students majoring in sociology are eligible to receive honors in sociology at graduation if they have met the following:

1. At least one-half of the course work required by the major is completed at this university;

2. At least a 3.5 grade point average in the major, both at this university and overall;
3. An overall undergraduate grade point average of 3.0 ("B") or better;
4. Completion of a senior honors project (SOC 597) approved in advance by the department.

**CERTIFICATE PROGRAMS**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to (a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. See Page 58 for additional certificate information.

**Certificate in Gerontology****Certificate Requirements (28 units)**

1. HSCI 423. Health and Wellness of Older Adults (4)
2. PSYC 329. Psychology of Adulthood and Aging (4)
3. SOC 330. Social Gerontology (4)
4. A minimum of sixteen units of elective courses, chosen with the approval of an advisor from Groups A and B below: (No more than six units in independent study or field study may be applied toward completion of the certificate.)
  - A. Natural Sciences electives:
    - BIOL 223. Human Physiology and Anatomy I (5)
    - BIOL 306. Human Heredity and Development (4)
    - BIOL 314. Biology of Human Sexuality (4)
    - HSCI 271. Introduction to Public Health (4)

May choose only one of the following two courses:

    - HSCI 345. Advanced Food Science (5)
    - HSCI 350. Principles of Nutrition (4)
  - HSCI 440. Family Health Issue for Educators (4)
  - HSCI 495A. Field Experience (5)
  - HSCI 495B. Field Experience (6)
  - HSCI 595. Independent Study (2-4)
  - NURS 595. Independent Study (1-6)
  - B. Social Sciences electives:
    - ANTH 331. Anthropology of Human Development (4)
    - PSYC 575. Internship in Psychology (4)
    - PSYC 595. Independent Study (2-4)
    - SOC 434. Community Organization (4)
    - SOC 575. Internship in Sociology (4)
    - SOC 590. Seminar in Sociology: Aging (4)
    - SOC 595. Independent Study (2-5)

**Certificate in Social Services****Certificate Requirements (32 units)**

1. SOC 100. The Study of Society (4)
2. SOC 339. Socialization (4)
3. SOC 418. Sociology of Social Welfare (4)
4. SOC 434. Community Organization (4)
5. SOC 436. Group Dynamics (4)
6. SOC 484. Social Casework (4)
7. SOC 575. Internship in Sociology (4) for a total of (8)

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**COURSE OFFERINGS IN  
SOCIOLOGY (SOC)**

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**Lower Division****100. The Study of Society**

Survey of the basic characteristics and dynamics of society and culture from the sociological perspective. (GE=D4) (SOC 100=CAN SOC 2) (4 units)

**110. Choices in the Life Course**

Utilization of social research in helping students make choices about life course events, such as career, education and family. (GE=E2) (2 units)

**180. Critical Thinking about Social Problems**

Critical thinking skills are developed through a comparison of common sense and social scientific analyses of contemporary social problems. Focus on causal reasoning, common logical fallacies and the distinction between belief and knowledge. (GE=A4) (4 units)

**Upper Division**

Prerequisite for upper-division courses is SOC 100, or consent of instructor.

**301. Applications in Sociology**

Intensive look at sociological research, stressing the application of theory and methods in specific empirical studies. Prerequisite: completion of the general education mathematics requirement. (4 units)

**307. Social Research I**

Basic concepts and techniques used by sociologists in conducting research. Four hours lecture and two hours laboratory. Prerequisites: SOC 100, 180 (or other course that meets the general education critical thinking requirement) and 301. (5 units)

**309. Social Research II**

Application of social measurement techniques, including data collection, data entry and the use and interpretation of the methods of data presentation with the utilization of statistical routines. Involves the use of computers and statistical software in the development of research reports, sociological analysis and modeling. Four hours lecture and two hours laboratory. Prerequisites: SOC 307 and MATH 110, 115 or 120. (5 units)

**311. Sociological Theory**

Sources of sociological theory and current trends in sociological analysis. (4 units)

**330. Social Gerontology**

Age-status and age-roles in American society, with crosscultural comparisons including intergenerational conflict and other age-related behaviors. (4 units)

**336. Black Women and Feminism**

Black women in America and their activities on behalf of women's rights; the interplay of racism and sexism within the women's movement. (4 units)

**339. Socialization**

Theories, goals and processes of childhood socialization and, to a lesser extent, adult socialization. Emphasis on organized social roles as they are mediated through the norms and patterned interactions of institutions; that is, the family, peer groups and the schools. (4 units)

**340. Sociology of the Family**

A systematic and comparative analysis of family structure and change: marriage, reproduction, childrearing, marital problems. (4 units)

**341. Marriage and Family Among Blacks**

Forces affecting the black family, with emphasis on the roles assigned to individual members. (4 units)

**342. The Chicano Family**

Consideration of the traditional and changing Mexican-American family patterns. Regional and social class variations. Influence of the family on Mexican-American personality development from a social-psychological perspective. (4 units)

**343. Sociology of Family Violence**

The occurrence, causes and effects of family violence as a social phenomenon. (4 units)

**350. Criminology**

Causes of crime with emphasis on sociological factors. (4 units)

**352. Juvenile Offender**

Causes of juvenile delinquency, types of juvenile offenders, the juvenile court, legal aspects of delinquency and methods of rehabilitation. (4 units)

**354. Deviant Behavior**

Deviant modes of human adjustment to modern society; processes of personal-social interaction in development of individual and group deviation. (4 units)

**355. Medical Sociology**

Patient's self concept from the pre-patient stage to the post-patient state and the relationship to the social system. Developmental stages in the "sick role" in contemporary society are emphasized. (4 units)

**356. Sociology of Mental Illness**

Cultural variations in definitions of mental health and illness; social processes involved in defining, labeling and treating mental illness; stigmatizing effects of being labeled mentally ill; relationship of the incidence and treatment of mental illness to class, ethnicity and other sociological categories. (4 units)

**358. Punishment and Corrections**

History and theories of punishment and treatment in dealing with criminals, sociological analysis of institutional systems and community based systems, work release programs and pre-release guidance centers. (4 units)

**360. Social Psychology**

The study of social interaction as it influences the development of self, role behavior, attitudes and values. Emphasis on symbolic interaction as a school of thought. (4 units)

**363. Sociology of Mass Communication**

Study of symbolic and organizational aspects of mass communication systems. Special attention to attitudes and beliefs as influenced by the mass media. (4 units)

**375. Sociology of Sport**

A sociological study of the relationship of sport to the structure of human societies. Analysis of the role of sport in childhood and adult socialization, and in the defining of social groups, neighborhoods, schools, cities, regions and nations. (4 units)

**380. Sociology of Religion**

Theoretical analysis of religion as a social institution in complex societies. Structure and functioning of religious organizations, roles and role relationships; types of religious organizations and leadership; relationships of religion to other social institutions; religion and social change. (4 units)

**382. Sociology of Developing Societies**

Examination of the causes and consequences of the "development of under-development" in the contemporary world-system. (4 units)

**410. Sociology of Race and Ethnicity**

Social inequality, including gender and class variations in racial and ethnic socialization, experienced by members of racial and cultural groups in the United States. (4 units)

**418. Sociology of Social Welfare**

Survey of the development and implementation of social welfare policies. Analysis of the impact of different public welfare programs on contemporary social problems. (4 units)

**425. Asian Americans: Origins and Ethnicity**

Examines the origin countries, immigration patterns, adaptation to government policies, discrimination, and contemporary ethnic identity of Asians and Asian Americans. Formerly a topic under SOC 590. (4 units)

**430. Urban Sociology**

Nature, causes and consequences of urbanization; metropolitan areas; location and types of cities; social and demographic characteristics of urban populations. (4 units)

**432. Political Sociology**

Examination of political process from the perspective of sociology, exploring in depth the nature, distribution and exercise of power, and related areas of interest. (4 units)

**434. Community Organization**

Programs of action, operative and proposed, for the organization of the community and the solution of its problems. (4 units)

**436. Group Dynamics**

Dynamics of primary group relationships, including psychotherapy groups. (4 units)

**440. Social Class**

Study of social class systems with particular reference to race, ethnicity and gender. (4 units)

**441. Black Social Stratification**

Caste in America, comparison of black and white stratification, black social mobility. (4 units)

**442. Chicano Social Stratification**

Variables affecting the social status of the Mexican-American in society, Mexican-American social mobility, social class differences in Mexican-American communities. (4 units)

**444. Sociology of Gender**

Social inequality, including class and racial/ethnic variations in sex-role organization, in the roles of women and men in contemporary U.S. society. (4 units)

**450. White Collar Crime**

Study of America's most costly form of crime and deviance. History, causes, consequences, prevention and explanations of economic crime and abuse of power in the corporate and business world, the professions, trades, the unions and government. (4 units)

**484. Social Casework**

Process of problem solving used by social work agencies to help individuals to cope more effectively with their problems in social functioning. (4 units)

**525. Indian Nations and Native America**

Reviews the 500 years of conquest, genocide, resistance, and survival, including the contemporary realities of indigenous peoples. Formerly a topic under SOC 590. (4 units)

**540. Sociology of Education**

Sociological analysis of educational organizations, the relationship of such organizations to culture, social class and power, and the roles of teachers, students and administrators. (4 units)

**575. Internship in Sociology**

Supervised work and study in private or public organizations. A total of eight units may be applied toward the major; 12 units may be applied toward graduation requirements. Graded credit/no credit. Prerequisites: consent of instructor and department. (4 units)

**590. Seminar in Sociology**

An intensive study of some phase of sociology to be developed by the instructor with the class. May be repeated for credit as topics change. Prerequisite: SOC 307 and consent of instructor. (4 units)

**595. Independent Study**

Special topics involving library and/or field research. A total of 10 units in SOC 595 may be applied toward graduation. Prerequisites: senior or graduate standing, a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (2-5 units)

**597. Senior Honors Project**

Original research in an area of sociology, culminating in a major research report. The research project may be a quantitative or qualitative nature. Enrollment limited to students whose formal application for departmental honors is approved. Prerequisite: formal application approved by department chair. (5 units)

**Graduate level courses can be found on Page 505.**

# SPANISH

## Department of World Languages and Literatures

University Hall, Room 314  
(909) 537-5847 <http://flan.csusb.edu/>

### Bachelor of Arts

- Spanish
- Hispanic Literature, Language, and Civilization Track
- Business Track

### Teaching Credential Program

- Spanish

### Minor

- Spanish

### Certificate Programs

- Bilingual/Cross-Cultural Studies: Spanish/English
- Spanish for Public Services

### Master of Arts

- Spanish
- (Degree requirements can be found on Page 506.)

The study of Spanish at California State University, San Bernardino is based on the recognition that the Hispanic culture in the United States forms an integral part of American society, and that the Spanish language, far from being "foreign," is spoken in nearly all sections of our nation alongside of English. In some areas of Southern California as well as other parts of the United States, speakers of Spanish outnumber those who speak English. Moreover, the importance of the Hispanic culture in the United States is increasing daily as additional immigrants arrive from Latin America.

The knowledge of Spanish for those seeking employment in our region is critical for the fields of teaching, journalism, publishing, advertising, writing, business, law, law enforcement, government, health services, as well as other career opportunities. Even a basic knowledge of Spanish at the SPAN 102 level may increase the probability of employment for these and other fields.

For the non-major of Spanish, the Spanish faculty of the Department of World Languages and Literatures recommends that the student fulfill the general education requirement in the foreign language section by one of the following:

- SPAN 102. College Spanish II (if the student had less than two years of high school Spanish)
- SPAN 150. Intermediate Spanish (for those who had two years of high school Spanish)
- SPAN 155. Intermediate Spanish for Heritage/Native Speakers (for those who have learned Spanish at home or while traveling)

For those advanced students of Spanish, one of the following courses would be an appropriate course to satisfy the general education requirement:

- SPAN 212. Composition
- SPAN 213. Composition for Heritage/Native Speakers
- SPAN 214. Conversation

Additional opportunities for the non-major of Spanish are also available. The Certificate in Spanish for Public Services provides critical skills in Spanish in the areas of speaking, translating and communication. The Certificate in Bilingual/Cross-Cultural Studies: Spanish/English familiarizes the student with the Hispanic culture in and outside of the United States. The Liberal Studies degree, for those prospective teachers of elementary children K-6, can be enhanced by taking the Spanish Studies Emphasis. This track allows the student to teach in both English and bilingual classrooms. The minor in

Spanish, which can be combined with any non-Spanish major, gives the student additional experience in Hispanic culture, literature and linguistics. A double major of Spanish and another subject is also an option.

For the Spanish major, the study of all aspects of Hispanic civilization is available, in both lower and upper-division classes. Those desiring to teach Spanish at the high school level as well as all other students in the program will receive a solid preparation in the culture and language of Spain and Latin America, as well as the Hispanic community within the United States.

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## B.A. IN SPANISH - HISPANIC LITERATURE, LANGUAGE AND CIVILIZATION TRACK

### Requirements (82 units)

#### Total units required for graduation: 180

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### Requirements for the B.A. in Spanish - Hispanic Literature, Language, and Civilization Track:

#### Language (28 units)

1. Proficiency in Spanish equal to that of SPAN 212/213 and 214. Students may verify proficiency through coursework in other colleges or universities or by a proficiency examination given the first two weeks of a course. Contact the Department of World Languages and Literatures for more information.
2. SPAN 302. Theory and Practice in Composition (4)
3. SPAN 314. Advanced Conversation (4)
4. SPAN 401. Phonetics (4)
5. SPAN 402. Advanced Composition (4)
6. SPAN 415. Comparative Linguistics: Spanish/English (4)
7. SPAN 416. Advanced Study of Semantics, Pragmatics, and Sociolinguistics (4)
8. Four units chosen from:
  - SPAN 312A. Techniques for Professional Interpreting and Translating in Spanish: Literature (4)
  - SPAN 312B. Techniques for Professional Interpreting and Translating in Spanish: Public Services (4)
  - SPAN 312C. Techniques for Professional Interpreting and Translating in Spanish: Law (4)
  - SPAN 316A. Spanish for the Professions: Communications (4)
  - SPAN 316B. Spanish for the Professions: Health Science (4)
  - SPAN 316C. Spanish for the Professions: Education (4)
  - SPAN 316D. Spanish for the Professions: Business (4)
  - SPAN 316E. Spanish for the Professions: Law Enforcement (4)

#### Literature (24 units)

1. SPAN 318. Techniques of Literary Study and Analysis (4)
2. Twelve units chosen from:
  - SPAN 370. Literature of the Conquest (4)
  - SPAN 371. Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century (4)
  - SPAN 372. Modern Peninsular Literature (4)
  - SPAN 373. Modern Latin American Literature (4)
3. Four units chosen from:
  - SPAN 440. Mexican Literature (4)
  - SPAN 442. Literature of the Southern Cone (4)
  - SPAN 443. Literature of the Caribbean (4)
  - SPAN 445. The Narrative of Spanish America (4)
  - SPAN 446. Literature of the Renaissance and the Spanish Golden Age (4)
  - SPAN 447. Romanticism and Realism in Spain (4)
  - SPAN 448. Twentieth Century Spanish Literature (4)
  - SPAN 449. Literature of the Indigenous Peoples of Spanish America (4)



4. Four units chosen from:
  - SPAN 515. Seminar in Spanish Peninsular Literature, Culture or Film (4)
  - SPAN 516. Seminar in Spanish American Literature, Culture or Film (4)

#### Civilization (12 units)

1. SPAN 410. Spanish Peninsular Civilization (4)
2. SPAN 412. Latin American Civilization (4)
3. HUM 335. The Origin and Contemporary Role of Latino Culture (4)

#### Teaching and Non-teaching Option (4 units)

##### Teaching Option

1. FLAN 350. Language Acquisition and Early Field Experience for Future Teachers (4)

##### Non-Teaching Option

1. Four units chosen from Spanish upper-division literature or language courses

#### Practicum (4 units)

1. Four units chosen from:
  - SPAN 394. Practicum (2) for a total of (4)
  - SPAN 399. Departmental Service Project (1) for a total of (4)
  - SPAN 575. Internship for Service Learning (1-5) for a total of (4)

#### Electives (8 units)

1. Eight units chosen from any upper-division Spanish courses.

#### Assessments (2 units)

1. SPAN 395. Junior Assessment (1)
2. SPAN 496. Senior Assessment (1)

## B.A. IN SPANISH - BUSINESS TRACK

### Requirements (82 units)

#### Total units required for graduation: 180

### Requirements for the B.A. in Spanish - Business Track:

#### Language (24 units)

1. Proficiency in Spanish equal to that of SPAN 212/213 and 214. Students may verify proficiency through coursework in other colleges or universities or by a proficiency examination given the first two weeks of a course. Contact the Department of World Languages and Literatures for more information.
2. SPAN 302. Theory and Practice in Composition (4)
3. SPAN 312B. Techniques for Professional Interpreting and Translating in Spanish: Public Services (4)
4. SPAN 314. Advanced Conversation (4)
5. SPAN 316D. Spanish for the Professions: Business (4)
6. SPAN 402. Advanced Composition (4)
7. SPAN 415. Comparative Linguistics: Spanish/English (4)

#### Literature (8 units)

1. SPAN 318. Techniques of Literary Study and Analysis (4)
2. Four units chosen from:
  - SPAN 370. Literature of the Conquest (4)
  - SPAN 371. Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century (4)
  - SPAN 372. Modern Peninsular Literature (4)
  - SPAN 373. Modern Latin American Literature (4)

#### Civilization (12 units)

1. SPAN 410. Spanish Peninsular Civilization (4)
2. SPAN 412. Latin American Civilization (4)
3. HUM 335. The Origin and Contemporary Role of Latino Culture (4)

#### Practicum (4 units)

1. Four units chosen from:
  - SPAN 394. Practicum (2) for a total of (4)
  - SPAN 399. Departmental Service Project (1) for a total of (4)
  - SPAN 575. Internship for Service Learning (1-5) for a total of (4)

#### Electives (8 units)

1. Eight units chosen from any upper-division Spanish courses.

#### Assessments (2 units)

1. SPAN 395. Junior Assessment (1)
2. SPAN 496. Senior Assessment (1)

#### Business (24 units)

1. ACCT 211. Introductory Accounting I (4)
2. INFO 102. Introduction to Information Technology (2)
3. INFO 103. Using Information Technology Applications (2)
4. MGMT 302. Management and Organizational Behavior (4)
5. MKTG 305. Marketing Principles (4)
6. Eight upper-division units chosen from a specific area in ACCT, INFO, MGMT or MKTG.

## TEACHING CREDENTIAL PROGRAM

The Bachelor of Arts in Spanish is approved as a single subject teaching credential program. In addition to the requirements of the major, credential candidates must complete certain prerequisites to the teacher education program. For information about the professional education component, admission to the teacher education program or specific requirements of the single subject waiver program, see Page 157 or contact the Credentials Office, CE-102.

## MINOR IN SPANISH

### Requirements (28 units)

#### Requirements for a minor in Spanish:

1. Proficiency in Spanish equal to SPAN 150. Intermediate Spanish.
 

**Note:** Entering students with previous training in Spanish, and those who are heritage/native speakers, should contact the Department of World Languages and Literatures for information about advanced placement and credit by examination.
2. Twenty-eight additional units in Spanish courses, of which 20 units must be upper-division.

## DEPARTMENTAL HONORS

1. Earned a 3.5 grade point average in the major.
2. Completed at least 45 units of the major at this university.
3. Successful completion of an oral and written honors evaluation.
 

Qualified students should apply for honors recognition during the first week of the quarter in which they are enrolled in SPAN 496. The honors evaluation will take place during SPAN 496. Exceptional performance on the oral and written evaluation may result in the waiving of requirements one and two above.

## CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to (a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. See Page 58 for additional certificate information.

**Certificate in Bilingual/Cross-Cultural Studies:  
Spanish/English****Certificate Requirements (32 units)**

Lower-division requirements (4 units)

1. SPAN 212. Composition (4)

Upper-division requirements (28 units)

1. COMM 304. Intercultural Communication (4)
2. SPAN 318. Techniques of Literary Study and Analysis (4)
3. Eight units chosen from:
  - ART 328. Mexican Art (4)
  - ART 329. Chicano Art (4)
  - SPAN 415. Comparative Linguistics: Spanish/English (4)
  - SPAN 440. Mexican Literature (4)
4. Twelve units chosen from:
  - ANTH 354. Cultures of Mexico and Central America (4)
  - ANTH 356. Cultures of South America (4)
  - ANTH 388. Language and Culture (4)
  - HIST 390. History of Modern Mexico (4)
  - HIST 391. Chicano History (4)
  - HIST 470. Modern Latin America (4)
  - HUM 450. Aspects of Chicana/o Culture (4)

**Certificate in Spanish for Public Services****Certificate requirements (28 units)**

Proficiency in Spanish equal to SPAN 150. Intermediate Spanish or equivalent. Note: Entering students with previous training in Spanish, and those who are heritage/native speakers, should contact the Department of World Languages and Literatures for information about advanced placement and credit by examination.

Lower-division requirement (4 units)

1. SPAN 212. Composition (4)

Upper-division requirements (24 units)

1. SPAN 302. Theory and Practice in Composition (4)
2. SPAN 312. Techniques for Professional Interpreting and Translating in Spanish (4)
3. SPAN 314. Advanced Conversation (4)
4. Four units chosen from:
  - SPAN 316A. Spanish for the Professions: Communications (4)
  - SPAN 316B. Spanish for the Professions: Health Science (4)
  - SPAN 316C. Spanish for the Professions: Education (4)
  - SPAN 316D. Spanish for the Professions: Business (4)
  - SPAN 316E. Spanish for the Professions: Law Enforcement (4)
5. Four units chosen from:
  - SPAN 440. Mexican Literature (4)
  - SPAN 442. Literature of the Southern Cone (4)
  - SPAN 443. Literature of the Caribbean (4)
  - SPAN 445. The Narrative of Spanish America (4)
  - SPAN 446. Literature of the Renaissance and the Spanish Golden Age (4)
  - SPAN 447. Romanticism and Realism in Spain (4)
  - SPAN 448. Twentieth Century Spanish Literature (4)
  - SPAN 449. Literature of the Indigenous Peoples of Spanish America (4)
6. SPAN 415. Comparative Linguistics: Spanish/English (4)

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**COURSE OFFERINGS IN  
SPANISH (SPAN)**

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**Lower Division**

Courses at the 101, 102 and 150 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours.

Students who have completed one or more Spanish upper-division courses may not enroll in lower-division courses without the approval of the Department of World Languages and Literatures.

**101. College Spanish I**

Fundamentals of pronunciation, structure and Hispanic culture designed to develop the ability to use and understand basic spoken Spanish. Students who have not taken Spanish at California State University, San Bernardino, must take a placement test before registration. Contact department office for details. (SPAN 101+102+150=**CAN** SPAN SEQ A) (4 units)

**102. College Spanish II**

Further study of the fundamentals of pronunciation, structure and Hispanic culture designed to develop the ability to use and understand basic spoken Spanish. Continuation of SPAN 101. Students who have not taken Spanish at California State University, San Bernardino, must take a placement test before registration. Contact department office for details. (**GE**=C3) (SPAN 101+102+150=**CAN** SPAN SEQ A) (4 units)

**150. Intermediate Spanish**

Emphasis on oral and written competency at the intermediate level in a cultural context. Students who have not taken Spanish at California State University, San Bernardino, must take a placement test before registration. Contact department office for details. Prerequisite: two years of high school Spanish or equivalent. (**GE**=C3) (SPAN 101+102+150=**CAN** SPAN SEQ A) (4 units)

**155. Intermediate Spanish for Heritage/Native Speakers**

Emphasis on reading comprehension, vocabulary building, and writing at the intermediate level in a cultural context. Students may not receive credit for both SPAN 150 and 155. Students who have not taken Spanish at California State University, San Bernardino, must take a placement test before registration. Contact department office for details. Prerequisite: ability to speak Spanish. (**GE**=C3) (4 units)

**212. Composition**

Comprehensive review of the principles of Spanish grammar, emphasizing their application to composition for students who have formally learned the language in the classroom and not in a Spanish-speaking environment (outside the classroom). Also offered as SPAN 213, students may not receive credit for both. Prerequisite: SPAN 150 or equivalent. (**GE**=C3) (4 units)

**213. Composition for Heritage/Native Speakers**

Comprehensive review of the principles of Spanish grammar, emphasizing their application to composition for students whose listening and comprehension skills have been developed outside the classroom in a Spanish-speaking environment. Especially designed for students who have completed SPAN 155. Also offered as SPAN 212, students may not receive credit for both. Prerequisite: SPAN 155 or equivalent. (**GE**=C3) (4 units)

**214. Conversation**

Practice of oral Spanish stressing the discussion of current topics, panel discussions, debates, and oral presentations for students who have formally learned the language in a classroom setting and not in a Spanish-speaking environment (outside the classroom). Prerequisite: SPAN 150 or equivalent. (GE=C3) (4 units)

**290. Spanish and Latin American Literature in English**

Introduction to Hispanic literature read in English translation. (GE=C3) (4 units)

**Upper Division**

Ordinarily, upper-division courses are conducted in Spanish. Students enrolled in these courses will be evaluated on appropriate progress in both the command of the language and the subject matter.

**302. Theory and Practice in Composition**

Extensive practice in composition and style. Corequisite: must be taken concurrently with SPAN 395. If student fails to receive credit for SPAN 395, both SPAN 302 and 395 must be repeated. May be repeated once for credit after having passed SPAN 395. Graded A, B, C/no credit. Prerequisite: SPAN 212 or 213. (4 units)

**312. Techniques for Professional Interpreting and Translating in Spanish**

Oral and written practice and methods of translation from Spanish to English and English to Spanish. May be repeated as topics change. Prerequisites: SPAN 302 and 395.

- A. Literature (4 units)
- B. Public Services (4 units)
- C. Law (4 units)

**314. Advanced Conversation**

Intensive practice of oral Spanish at the advanced level leading to fluency, to the development of a comprehensive, practical vocabulary and to public speaking skills for students who have formally learned the language in a classroom setting and not a Spanish-speaking environment (outside the classroom). Prerequisites: SPAN 302 and 395. (4 units)

**316. Spanish for the Professions**

Oral and written practice in terminology used in various professions. May be repeated as topics change. Prerequisites: SPAN 302 and 395.

- A. Communications (4 units)
- B. Health Science (4 units)
- C. Education (4 units)
- D. Business (4 units)
- E. Law Enforcement (4 units)

**318. Techniques of Literary Study and Analysis**

Techniques of literary study and analysis through readings from Spanish and Latin American literature. Formerly SPAN 216. Prerequisites: SPAN 302 and 395. (4 units)

**320. Special Problems in Spanish Grammar**

Intensive study of selected grammatical problems in Spanish. Three hours lecture and two hours laboratory. Prerequisites: SPAN 212, 302 and 395. (4 units)

**370. Literature of the Conquest**

Readings from Latin American literature from the fifteenth through the seventeenth centuries. Prerequisites: SPAN 302, 318 and 395. (4 units)

**371. Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century**

Readings from the origins of Spanish literature through the Golden Age. Prerequisites: SPAN 302, 318 and 395. (4 units)

**372. Modern Peninsular Literature**

Readings in Spanish peninsular literature from the eighteenth century to the present. Prerequisites: SPAN 302, 318, and 395. (4 units)

**373. Modern Latin American Literature**

Readings in Latin American literature from the eighteenth century to the present. Formerly SPAN 392. Prerequisites: SPAN 302, 318, and 395. (4 units)

**394. Practicum**

Participation in departmental cultural activities. May be repeated for a total of four units. Generally assumes 30 hours of work/study per unit of credit. Graded credit/no credit. Prerequisites: SPAN 302 and 395.

- A. Dramatic Production (2 units)
- B. Student/Faculty Journal (2 units)
- C. Tutoring Center (2 units)
- D. Media Center Service (2 units)
- E. Writing Center (2 units)

**395. Junior Assessment**

Assessment of the student's knowledge of the five basic language skills (listening, speaking, reading, writing and culture) based on defined performance standards. Satisfactory completion will be required for enrollment in all other upper-division courses in Spanish (excluding SPAN 435). A student who fails SPAN 395 twice will not be permitted to participate in the Spanish major, minor, certificate programs, or upper-division classes required in the Liberal Studies, Spanish Studies program. Graded credit/no credit. (1 unit)

**398. Survey of Classical and Contemporary Hispanic Films**

Analysis of selected classical and contemporary Hispanic films from production of major studios to avante-garde artists. Explores important themes as well as significant directors and their unique use of photography, music, literature, and scripting. Each topic may be taken once for credit. Prerequisites: SPAN 302 and 395, or consent of instructor.

- A. Films from Spain. Class conducted in Spanish and films in Spanish. (2 units)
- B. Films from Latin America. Class conducted in Spanish and films in Spanish. (2 units)
- C. Classical and Contemporary Films from Spain, Latin America, and the United States. Class conducted in English and films screened in English or with English subtitles. (2 units)
- D. Films from Spain and Latin America. Class conducted in Spanish with films screened from Spain and Latin America. (2 units)
- E. Significant Director or Theme of Hispanic Film. Class conducted in Spanish with films from Spain, Latin America and United States. (2 units)

**399. Departmental Service Project**

Credit for performing academically related tasks within the Department of World Languages and Literatures. No more than six units of credit for Departmental Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisites: SPAN 302 and 395 and consent of instructor. (1 unit)

**401. Phonetics**

In depth study of the Spanish sound system. Oral practice and study of general principles of Spanish phonology and dialectology. Three hours lecture and two hours laboratory. Prerequisites: SPAN 302 and 395. (4 units)

#### 402. Advanced Composition

Advanced expository writing in Spanish, including documented research reports and analytical papers. Revision and rewriting will be required. May be repeated for credit. Prerequisites: SPAN 302 with a grade of "C" or better and 395. (4 units)

#### 410. Spanish Peninsular Civilization

Analysis of significant cultural aspects of Spanish civilization. Prerequisites: SPAN 302 and 395. (4 units)

#### 412. Latin American Civilization

Analysis of significant cultural aspects of Latin American civilization. Prerequisites: SPAN 302 and 395. (4 units)

#### 415. Comparative Linguistics: Spanish/English

Application of modern linguistic theory to the problems of second language acquisition in the areas of phonology, morphology and syntax. Emphasis will be given to analysis of the subsystems of English and Spanish. Includes classroom applications. Prerequisites: SPAN 302 and 395. (4 units)

#### 416. Advanced Study of Semantics, Pragmatics and Sociolinguistics

Semantics, pragmatics, and discourse in Spanish, with consideration of social factors in language use, variation and change. Prerequisites: SPAN 302, 395 and 415. (4 units)

#### 430. Creative Writing

Workshop in writing fiction and poetry, discussion of student writings, and exemplary works by established authors. Prerequisites: SPAN 302, 395 and 402. (4 units)

#### 435. Chicano Literature in Spanish

Literary analysis of selected works by Chicano writers with a special emphasis on historical and contemporary issues. Prerequisite: ability to read and write at the SPAN 150 or 155 level. (4 units)

#### 440. Mexican Literature

Survey of the development of Mexican literature from 1520 to the present. Prerequisites: SPAN 302, 318, 395 and one class from the SPAN 370 series. (4 units)

#### 442. Literature of the Southern Cone

Survey of the literature of Argentina, Uruguay and Chile from the sixteenth century to the present. Prerequisites: SPAN 302, 318, 395 and one class from the SPAN 370 series. (4 units)

#### 443. Literature of the Caribbean

Survey of the literature of the Spanish-speaking Caribbean region from the sixteenth century to the present. Prerequisites: SPAN 302, 318, 395 and one class from the 370 series. (4 units)

#### 445. The Narrative of Spanish America

Survey of the narrative of Spanish America from the nineteenth century to the present. Prerequisites: SPAN 302, 318, 395, and one class from the SPAN 370 series. (4 units)

#### 446. Literature of the Renaissance and the Spanish Golden Age

Survey of Spanish peninsular literature from the fifteenth through the seventeenth century. Prerequisites: SPAN 302, 318, 395, and one class from the SPAN 370 series. (4 units)

#### 447. Romanticism and Realism in Spain

Survey of Spanish peninsular literature of the nineteenth century. Prerequisites: SPAN 302, 318, 395, and one class from the SPAN 370 series. (4 units)

#### 448. Twentieth Century Spanish Literature

Survey of contemporary Spanish fiction, poetry and essay. Prerequisites: SPAN 302, 318, 395, and one class from the SPAN 370 series. (4 units)

#### 449. Literature of the Indigenous Peoples of Spanish America

Survey of oral and written literature of selected indigenous peoples of Spanish America prior to 1492. Prerequisites: SPAN 302, 318, 395 and one class from the SPAN 370 series. (4 units)

#### 496. Senior Assessment

Assessment of student's oral and written proficiency in Spanish. Includes written exam based on the student's upper-division Spanish courses and a research paper examining a theme from Spanish literature, linguistics or civilization. Majors must take this course prior to enrolling in the last twelve units of the major. Course must be taken prior to the final quarter at CSUSB. Graded credit/no credit. Prerequisite: SPAN 395 and senior standing. (1 unit)

#### 515. Seminar in Spanish Peninsular Literature, Culture or Film

Advanced study of the literature and culture of Spain. May be repeated as topics change. Prerequisites: SPAN 302, 318, 395; one class from the SPAN 370 series; and one class from the SPAN 440 series.

- A. Prose Fiction (4 units)
- B. Poetry (4 units)
- C. Drama (4 units)
- D. Essay (4 units)
- E. Author (4 units)
- F. Culture (4 units)
- G. Film (4 units)

#### 516. Seminar in Spanish American Literature, Culture or Film

Advanced study of the literature and culture of Spanish America. May be repeated as topics change. Prerequisites: SPAN 302, 318, 395; one class from the SPAN 370 series; and one class from the SPAN 440 series.

- A. Prose Fiction (4 units)
- B. Poetry (4 units)
- C. Drama (4 units)
- D. Essay (4 units)
- E. Author (4 units)
- F. Culture (4 units)
- G. Film (4 units)

#### 575. Internship in Service Learning

Supervised intensive work that requires advanced skills in oral and/or written Spanish in private or public organizations. A total of eight units may be applied toward graduation. Generally assumes thirty hours of work/study per unit of credit. Graded credit/no credit. Prerequisites: SPAN 302 and 395. (1-5 units)



# SPECIAL MAJOR

## Office of the Dean of Undergraduate Studies

University Hall, Room 368  
(909) 537-5032 <http://www-ugs.csusb.edu/>

### B.A. with SPECIAL MAJOR

#### Requirements (40 units)

#### Total units required for graduation: 180

Occasionally, students with specialized educational or professional objectives may find that the existing degree programs offered at the university do not satisfy personal needs or career plans and that a carefully structured, interdisciplinary program of study is more appropriate.

The B.A. with Special Major is an interdisciplinary program intended for students with unusual interests and abilities who have the initiative and desire to design their own major with the aid of faculty advisors. The purpose of these individually-designed special majors is to provide a carefully controlled opportunity for exceptional students to design, with faculty approval, a flexible interdisciplinary course of study that leads to a Bachelor of Arts degree.

Admission normally is limited to students who can design (with the aid of a faculty committee) individualized programs organized around a coherent topic or cross-disciplinary subject that involves two or more departments. Occasionally short-term interests in interdisciplinary programs may be served by more structure and degree plans organized by faculty for groups of students.

The B.A. with Special Major is not intended to bypass normal graduation requirements or to avoid certain requirements of a regular major offered at CSUSB or at other nearby institutions. The self-designed major should not substantially duplicate any existing degree offered at CSUSB. Likewise, a Special Major cannot be developed in areas such as architecture, agriculture, or engineering where the campus lacks the necessary faculty expertise to guide the student and supervise the culminating project. Students must have an overall grade point average of 3.0 including work taken at all institutions and must maintain a 3.0 average in the courses required for the self-designed major.

Although the Special Major is a unique program that suits individual goals, has potential to combine fields and functions, and can add distinction to the degree, such an interdisciplinary program may pose professional obstacles and be difficult to explain to graduate schools and employers. Career goals and prerequisites for higher degrees should be reviewed before proceeding with this major. In particular, students who will be seeking a teaching credential should consult with faculty in the College of Education to see how a Special Major might impact subject matter requirements for teachers.

Interested students should contact the Dean of Undergraduate Studies to begin the application and screening process. Prospective majors should be prepared to present a one-page description and justification of the program which outlines the concepts, goals and objectives to be fulfilled by the Special Major. If, after discussing the tentative interdisciplinary interests of the student, the Dean of Undergraduate Studies believes the student should be encouraged to prepare a formal application and proposal for a Special Major, a packet of information and forms for justifying and submitting the proposed interdisciplinary curriculum will be provided to the student. If the student has not yet found faculty members who are interested in helping the student develop the curriculum and guide their study, the Dean of Undergraduate Studies will suggest possible faculty committee members.

#### Requirements for the Major:

1. Only regularly matriculated students with a 3.0 overall grade point average may be admitted to the Special Major program.
2. The minimum requirements for a Special Major will be 40 units of carefully structured upper-division work in two or more fields. Additional units beyond the minimum may be required by the faculty committee.
3. The Special Major must be proposed prior to the senior year. A student should have completed no more than 140 units at time of application for the Special Major and have a minimum of 40 units left to complete. While the B.A. degree requires a minimum of 180 units, students seeking approval for a Special Major after reaching upper-division status may find the need for prerequisites and lower-division introductory courses may extend the total number of units completed beyond the minimum of 180.
4. Neither lower-division or upper-division General Education courses may be counted in the major, though they may supplement, strengthen and provide background for the major.
5. The Special Major is not available as a "double major," nor is it available to students pursuing a second bachelor's degree.
6. A culminating experience (project, research paper, or other written documentation) and verification of accomplishment of project is required. Up to four units of credit for this may be built into the requirements of the major.

#### Application Process:

1. Determine the feasibility of pursuing a Special Major by reviewing the requirements and examining available programs and majors to see if the proposed major could be met though any of these. Explore the resources of the campus needed for a Special Major in terms of course offerings, library resources, facilities, and faculty expertise.
2. Develop a statement of goals and objectives and the interdisciplinary program proposal which specifically addresses the following: What is the purpose or focus of this specially designed major? What skills does the student already have? What additional knowledge is needed? What is the best way to reach the goal? What is the student's career objective? Are there plans for advanced training and study?
3. Consult with the Dean of Undergraduate Studies about the process as well as interests and goals. One week prior to this meeting, the student must submit a written description and justification of the area of study based on goals and objectives. The Undergraduate Dean will contact departments and faculty members to discuss the feasibility of this area of study. If the draft proposal is acceptable, forms for formally developing and proposing the degree requirements will be provided.
4. A faculty committee will be appointed at this time based on recommendations of the Undergraduate Dean and appropriate departments. A chair will be elected by the committee. Normally, the faculty committee will be made up of faculty from the departments and disciplines of the interdisciplinary interests, e.g., a program in Arts Management would usually have faculty committee from the arts and business.
5. Work with the faculty committee to determine the best and most appropriate courses to include in the Special Major. Consideration should be given to prerequisites and lower-division courses needed as preparation for the 40 units minimum of upper-division study required in the Special Major.
6. The Special Major proposal must be signed by three faculty members who have worked with the student in developing the proposed course of study. The faculty member who will chair the advisory committee must write a statement of support which includes a brief evaluation of the proposal.

7. On the form provided, list the lower-division support courses which were taken in preparation for the upper-division component. These may include General Education and transfer courses where appropriate and directly related to your planned area of study.
8. List the minimum of 40 units of upper-division work to be included in the Special Major. As an interdisciplinary program, these courses should include work from at least two and usually three or more departments. To avoid later difficulties with key courses that are not offered prior to graduation, reasonable substitutions should be listed where possible.
9. Submit the Special Major proposal along with a copy of transcripts of all college work completed to the Dean of Undergraduate Studies. This proposal will be forwarded to the University Curriculum Committee for consideration. The committee meets regularly throughout the academic year and applications can be submitted at any time, though every effort should be made to turn in the proposal early enough in the term to receive approval prior to registration for the next term. Applications cannot be considered during the summer quarter. (The application materials should be filled out with great care and accuracy. Hastily done or carelessly prepared proposals are unlikely to convince the Curriculum Committee of the seriousness of the proposal.)
10. In some cases, the University Curriculum Committee may invite students and/or their faculty advisor to discuss the proposal with the committee, especially where clarification or changes are requested.
11. The Dean of Undergraduate Studies will notify the student in writing of the decision of the University Curriculum Committee. This may be approval, conditional approval based on recommended changes/revisions in curriculum, or disapproval.
12. Any change or substitution of courses in the approved program must be approved by the student's faculty committee and the Dean of Undergraduate Studies.
13. Upon approval of the Special Major proposal, the student may formally declare a Special Major. At graduation, the diploma will show only a B.A. with Special Major, but the transcript will reflect the nature or title of the special interdisciplinary study in this fashion: B.A. with Special Major in (subject area).

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## B.A. IN SPECIAL MAJOR: ADVERTISING MANAGEMENT

### Requirements (84 units)

### Total units required for graduation: 180

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### Requirements for the B.A. in Special Major - Advertising Management:

#### Lower-division requirements (24 units)

1. ACCT 211. Introductory Accounting I (4)
2. ART 120. Introduction to Two Dimensional Design (4)
3. ART 223. Art History: Renaissance to the Present (4)
4. ART 232. Principles of Design Management (4)
5. ART 238. Production of Visual Information Design (4)
6. Four units chosen from:
  - ECON 200. Principles of Microeconomics (4)
  - ECON 202. Principles of Macroeconomics (4)
  - MGMT 100. Introduction to Business and Public Administration (4)

#### Upper-division requirements (54 units)

1. ART 333. History of Graphic Design (4)
2. ART 342. Graphic Design I (5)
3. ART 343. Graphic Design II (5)
4. MGMT 302. Management and Organizational Behavior (4)
5. MKTG 305. Marketing Principles (4)
6. MKTG 410. Consumer Behavior (4)
7. MKTG 416. Marketing Research (4)
8. MKTG 420. Advertising (4)
9. MKTG 446. Advertising Campaign (4)
10. MKTG 470. International Marketing Management (4)
11. MKTG 496. Marketing Planning and Strategy (4)
12. MKTG 575. Internship in Marketing (4)
13. MKTG 590. Seminar in Marketing (4)

#### Electives (6 units)

1. Six units chosen from (courses may not have been used to satisfy requirements previously in the major):
  - ART 221. Art History: Prehistoric Times Through the Middle Ages (4)
  - ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
  - ART 301. Topics in Studio Art for Non-Majors (2.5)
  - ART 344. Graphic Design III (5)
  - ART 442. Graphic Design IV (5)
  - ART 443. Graphic Design V (5)
  - ECON 200. Principles of Microeconomics (4)
  - ECON 202. Principles of Macroeconomics (4)
  - MGMT 100. Introduction to Business (4)
  - MKTG 575. Internship in Marketing (4)
  - MKTG 590. Seminar in Marketing (4)

# SUPPLY CHAIN MANAGEMENT

## Department of Information and Decision Sciences

Jack Brown Hall, Room 460  
(909) 537-5723 <http://ids.csusb.edu/>

**FACULTY:** Anand Bhatia (Emeritus), Harold Dyck, Kamvar Farahbod, Barbara Sirotnik, Jay Varzandeh, Walt Stewart (Chair)

The university offers a concentration in supply chain management within the Bachelor of Arts in Administration and the Master of Business Administration. The details of these programs are listed under Administration on Page 72 and the Master of Business Administration on Page 365. The courses listed below are offered in support of these programs. Further information is available from the Department of Information and Decision Sciences.

### COURSE OFFERINGS IN SUPPLY CHAIN MANAGEMENT (SCM)

#### Lower Division

##### 205. Enterprise Systems

Foundation for enterprise systems resource planning and implementation, including supply chain management modeling and operations planning. Students will learn to configure and apply an enterprise systems software. Prerequisites: INFO 102 and 103. (4 units)

##### 210. Applied Business Statistics

An introduction to statistical reasoning and application of primary statistical techniques used in solving managerial problems. Covers both descriptive and inferential statistics. Students may not receive credit for more than one of the following courses: PSYC 210 or SCM 210. Formerly MSC1 210. Three hours lecture and two hours activity laboratory. (4 units)

#### Upper Division

##### 304. Principles of Supply Chain Management

Introduction to supply chain management concepts and techniques. Methods that aid the manager in making rational decisions in manufacturing and service industries are discussed. Emphasis is on the application of models to managerial decision making. Formerly MSC1 304 and OM 304. Prerequisites: MATH 110 or 120 and SCM 210. (4 units)

##### 350. Applied Decision Analysis

Discussion and application of a decision-analysis framework for addressing organizational decisions. Topics include sampling and data gathering, statistical inference, regression analysis for forecasting, risk analysis, simulation, and optimization modeling. Prerequisite: SCM 304. (4 units)

##### 405. Advanced Enterprise Systems

Advanced study of enterprise systems planning in different stages of organizational operations. Students use enterprise planning technology to examine cases in different organizational settings. Prerequisites: SCM 205 and 304. (4 units)

##### 440. Transportation Systems Management

Analysis of alternative transportation modes, carriers, services, rates and policies as related to overall operation of an organization's shipping and/or traffic departments. Formerly MKTG 452. Prerequisite: SCM 304. (4 units)

##### 466. Operations Planning and Control

Analytical approach to traditional and modern concepts in operations analysis and planning. Includes application of techniques to accomplish the organization's mission by using productive resources. Formerly OM 466. Prerequisite: SCM 304. (4 units)

##### 470. Supply Chain Management

Comprehensive study of all activities and processes to supply products or services to final customers. Topics include: purchasing, logistics and supply chain optimization, inventory control, warehouse and distribution management. Formerly OM 470. Prerequisite: SCM 304. (4 units)

##### 480. Quality Management

Description and analysis of quality assurance programs and techniques and their many applications from a total quality management perspective. Topics include quality planning, statistical quality control, quality design and measurement, and management of inspection. Formerly OM 480. Prerequisite: SCM 304. (4 units)

##### 490. Logistics Strategy

Development, implementation and integration of logistics and functional strategies of organizations. Capstone course for the fields of supply chain and transportation. Application of logistics will be explored through case studies and application of current technology. Prerequisite: completion of all other courses in concentration program. (4 units)

##### 575. Internship in Supply Chain Management

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

##### 590. Seminar in Supply Chain Management

An intensive study of some phase of supply chain management to be developed by the instructor. May be repeated for credit as topics change. Formerly MSC1 590. (4 units)

##### 595. Independent Study

Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. Formerly MSC1 595. (2 or 4 units)

# THEATRE ARTS

## Department of Theatre Arts

Performing Arts Building, Room 111  
(909) 537-5876 <http://cal.csusb.edu/Depts/TheatreArts/>

### Bachelor of Arts

Theatre Arts  
with emphases in:  
Acting  
Dance  
Design/Technical  
Drama Education  
Musical Theatre

### Teaching Credential Program

English with a Theatre Arts Concentration

### Minor

Film Studies (See Page 125.)  
Script Writing  
Theatre Arts

### Certificate Program

Puppetry  
Theatre for Youth

### Master of Arts

Theatre Arts  
(Degree requirements can be found on Page 509.)

**FACULTY:** Michelle Ebert, Kathryn Ervin, Andre Harrington,  
Lee Lyons, Margaret Perry (Chair), William Peterson,  
Thomas Provenzano, Johanna Smith, Terry Smith

The theatre arts major is a practical liberal arts degree. The broad range of subjects studied enable the theatre student to qualify for a wide variety of fields. Theatre majors are found in the professional areas of live theatre, film, television, corporate and media training, radio, public relations, advertising, business law, teaching, and higher education.

The diverse nature of theatre explores expressions of human interactions and conflict. This study develops intellectual awareness about the human condition. It helps develop skills for working as a theatre artist and as an individual who understands team work.

Liberal studies majors will benefit from a departmental philosophy that good theatre training is also excellent teacher training. Many courses in the department have no prerequisites, and they will help liberal studies students to prepare for careers in teaching.

The Theatre Arts Department produces five major plays during the academic year. The department also presents several student directed/designed productions. In addition, the department has touring groups including The Imagination Players, an elementary school tour; and the Sun Tour, multiethnic theme plays for high school and community college students.

In addition to acting and backstage opportunities, theatre students are encouraged to work with faculty as assistant directors, designers, stage managers, and in theatre administration. Theatre faculty encourage highly motivated and qualified students to develop their own creative efforts. New student play scripts and innovative approaches to theatre are strongly encouraged.

Theatre arts majors choose to concentrate in one of five areas once they have completed a common core of courses: acting, design/technical, drama education, dance, or musical theatre. Students interested in Theatre for Youth, see certificate program described on Page 333.

## B.A. IN THEATRE ARTS

### Requirements (83 units)

### Total units required for graduation: 180

### Requirements for the B.A. in Theatre Arts:

#### Lower-division requirements (21 units)

1. TA 235. Fundamentals of Stage Design (4)
2. Two units chosen from:  
TA 245. Beginning Theatre Movement (2)  
TA 253. Voice for the Stage (2)
3. TA 251. Acting I: Games and Exercises (3)
4. TA 252. Acting II: Creating a Role (3)
5. Nine units chosen from:  
TA 131. Makeup for Stage and Screen (3)  
TA 231. Sound for Stage and Screen (3)  
TA 232. Lighting for Stage and Screen (3)  
TA 233. Costume Construction (3)  
TA 239. Stagecraft (3)

#### Upper-division requirements (43 units)

1. TA 302B. Analysis and Writing of Drama (4)
2. TA 331. Theatre Management (4)
3. TA 346. Directing I (3)
4. TA 351. Acting III: Scene Study (3)
5. TA 361. Theatre History I: Origins Through Medieval (4)
6. TA 362. Theatre History II: Renaissance Through Eighteenth Century (4)
7. TA 363. Theatre History III: Nineteenth Century to the Present (4)
8. Four units chosen from:  
TA 320A. Performance Practicum: Main Stage (2)  
TA 320B. Performance Practicum: Imagination Players (2)  
TA 320C. Performance Practicum: Touring Theatre (2)  
TA 320E. Performance Practicum: Special Projects (2)  
TA 320F. Performance Practicum: Dance Performance (2)  
TA 320G. Performance Practicum: Puppetry (2)
9. Four units chosen from:  
TA 321A. Technical Practicum (1)  
TA 321B. Technical Practicum (2)
10. Four units chosen from:  
TA 450. Classical Drama (4)  
TA 451. Mystery to Melodrama (4)  
TA 463. Asian Theatre (4)  
TA 475. Shakespeare I (4)  
TA 476. Shakespeare II (4)
11. Four units chosen from:  
TA 401. History of Musical Theatre (4)  
TA 455. Modern Drama I (4)  
TA 456. Modern Drama II (4)  
TA 457. Theatre of the Avant-Garde (4)  
TA 461. American Drama (4)  
TA 462. African-American Theatre and Drama (4)  
TA 464. Theatre of the Post-Colonial World (4)  
TA 466. Issues in Gay, Lesbian, Bisexual and Transgender Theatre (4)  
TA 468. Chicana/o and U.S. Latina/o Theatre (4)
12. TA 585. Senior Assessment (1)



## Emphases (19 units)

Nineteen units chosen from one of the following emphases which were not chosen as part of the core:

**Acting Emphasis**

- Two units chosen from the following courses, which were not chosen as part of the lower-division core:
  - TA 245. Beginning Theatre Movement (2)
  - TA 253. Voice for the Stage (2)
- TA 240. Improvisation (3)
- TA 345. Advanced Voice and Movement (2)
- Twelve units chosen from:
  - TA 352. Acting IV: Modern Repertory (3)
  - TA 353. Acting V: Styles of Acting (3)
  - TA 354. Acting VI: Acting Shakespeare (3)
  - TA 355. Acting VII: Acting Musicals (3)
  - TA 357. Acting for the Camera (3)
  - TA 446. Directing II (3)

**Dance Emphasis**

- Twelve units (at least six of which must be upper division) chosen from:
  - DAN 200A. Studies in Dance: Jazz (2)
  - DAN 200B. Studies in Dance: Modern (2)
  - DAN 200C. Studies in Dance: Tap (2)
  - DAN 200D. Studies in Dance: Ballet (2)
  - DAN 300A. Dance Techniques: Jazz (2)
  - DAN 300B. Dance Techniques: Modern (2)
  - DAN 300C. Dance Techniques: Tap (2)
  - DAN 300D. Dance Techniques: Ballet (2)
  - DAN 300E. Dance Techniques: Musical Theatre (2)
  - DAN 310A. World Dance Traditions: African (2)
  - DAN 310B. World Dance Traditions: South and Central American (2)
  - DAN 310C. World Dance Traditions: North American (2)
  - DAN 310D. World Dance Traditions: Asian (2)
  - DAN 310E. World Dance Traditions: Mediterranean (2)
- Seven units chosen from:
  - DAN 355. Dance Notation (3)
  - DAN 360. Dance History (4)
  - DAN 450. Choreography (3)
  - DAN 481. Creative Dance in the Classroom (4)
  - TA 355. Acting VII: Acting Musicals (3)
  - TA 401. History of Musical Theatre (4) (if not taken as part of upper-division core)
  - TA 463. Asian Theatre (4)

**Design/Technical Emphasis**

- TA 130. Computer Applications for Technical Theatre (1) for a total of (2)
- TA 334. Theatrecrafts (3) for a total of (6)
- Three units chosen from:
  - TA 131. Makeup for Stage and Screen (3)
  - TA 231. Sound for Stage and Screen (3)
  - TA 232. Lighting for Stage and Screen (3)
  - TA 233. Costume Construction (3)
  - TA 239. Stagecraft (3)
- Six units chosen from:
  - TA 332. Stage Lighting Design (3)
  - TA 333. Stage Sound Design (3)
  - TA 337. Design: Costume Design (3)
  - TA 338. Design: Scene Design (3)
- Two units chosen from:
  - TA 321A. Technical Practicum (1)
  - TA 321B. Technical Practicum (2)
  - TA 535. Independent Project (1-4)

**Drama Education Emphasis**

- DAN 481. Creative Dance in the Classroom (4)
- TA 481. Creative Drama in the Classroom (3)
- Twelve units chosen from:
  - DAN 580. Advanced Creative Dance Methods (4)
  - TA 240. Improvisation (3)
  - TA 320B. Performance Practicum: Imagination Players (2)
  - TA 320C. Performance Practicum: Touring Theatre (2)
  - TA 347. Playwriting (4)
  - TA 446. Directing II (3)
  - TA 483. Children's Theatre (4)
  - TA 484. Readers Theatre in the Classroom (3)
  - TA 486. Puppetry in the Classroom (3)
  - TA 579. Theatre in the Elementary Classroom (4)
  - TA 580. Advanced Creative Drama in the Classroom (4)
  - TA 581. Theatre in the Secondary Classroom (4)

**Musical Theatre Emphasis**

Emphasis requires a placement examination administered by the Department of Music (proficiency in music fundamentals equal to that of MUS 100 and 101).

- DAN 300E. Dance Techniques: Musical Theatre (2)
- Six units chosen from:
  - MUS 206. Class Voice (1)
  - MUS 240. Lower-Division Voice II (1)
  - MUS 302. Music Theatre Production (2)
  - MUS 385. Concert Choir (1)
  - MUS 386. Chamber Singers (1)
  - MUS 387. Opera Workshop (1)
  - MUS 392. Vocal Jazz (1)
  - MUS 395. Symphonic Choir (1)
  - MUS 396. Reverence Singers (1)
- TA 355. Acting VII: Acting Musicals (3)
- TA 401. History of Musical Theatre (4) (cannot be taken as part of upper division core)
- Four units chosen from:
  - DAN 200A. Studies in Dance: Jazz (2)
  - DAN 200B. Studies in Dance: Modern (2)
  - DAN 200C. Studies in Dance: Tap (2)
  - DAN 200D. Studies in Dance: Ballet (2)
  - DAN 300A. Dance Techniques: Jazz (2)
  - DAN 300B. Dance Techniques: Modern (2)
  - DAN 300C. Dance Techniques: Tap (2)
  - DAN 300D. Dance Techniques: Ballet (2)

**TEACHING CREDENTIAL PROGRAM****Teaching Credential Program in English - Theatre Arts Concentration**

**Note:** This program is being revised to meet the new CCTC standards. The requirements below apply only to students under the 2004-2005 or earlier catalog.

In order to be recommended for the teaching credential in English with a concentration in Theatre Arts (English subject matter program), students must complete the courses listed in the core of the B.A. in English (lower-division requirements 1-3, and upper-division requirements 1-7, see Page 168), as well as the following:

- Four units chosen from:
  - COMM 245. Introduction to TV and Video Production (4)
  - CSCI 127. Introduction to Computer Technology for Educators (4)
- Four units chosen from:
  - ENG 312. Theories of Language Acquisition and Learning (4)
  - ENG 420. English Grammar I (4)

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3. Four units chosen from:  
ENG 306. Expository Writing (4)  
HUM 306. Expository Writing for the Humanities (4)
4. Six units chosen from:  
TA 131. Makeup for Stage and Screen (3)  
TA 231. Sound for Stage and Screen (3)  
TA 232. Lighting for Stage and Screen (3)  
TA 233. Costume Construction (3)  
TA 239. Stagecraft (3)
5. TA 251. Acting I: Games and Exercises (3)
6. TA 252. Acting II: Creating a Role (3)
7. TA 351. Acting III: Scene Study (3)
8. TA 346. Directing I (3)
9. TA 581. Theatre in the Secondary Classroom (4)

Prior to student teaching, students must demonstrate subject matter competence as assessed by the Department of English. For information about the professional education component, prerequisites for and admission to the teacher education program, or specific requirements for the single subject credential program, see Page 157 or contact the Credentials Office, CE-102.

**Note:** Completing the requirements of the teaching credential in English with a concentration in Theatre Arts does NOT in itself satisfy the requirements for the major in either English or Theatre Arts.

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**MINOR IN FILM STUDIES**

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**Minor in Film Studies**

The Department of Theatre Arts participates in the interdisciplinary minor in Film Studies. Details concerning this minor are found on Page 125.

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**MINOR IN SCRIPT WRITING**

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**Requirements (28 units)****Requirements for a minor in Script Writing:**

Lower-division requirement (4 units)

1. Four units chosen from:  
HUM 180. The Art of Film (4)  
TA 260. Introduction to Theatre (4)

Upper-division requirements (24 units)

1. COMM 347. Fundamentals of Screenwriting (4)
2. Four units chosen from:  
ENG 302B. Analysis and Writing of Drama (4)  
TA 302B. Analysis and Writing of Drama (4)
3. TA 347. Playwriting (4)
4. Four units chosen from:  
ENG 316. Introduction to Creative Writing: Specialized Genres (4)  
ENG 317. Introduction to Creative Writing: Poetry (4)  
ENG 318. Introduction to Creative Writing: Fiction (4)
5. ENG 513. Advanced Creative Writing: Specialized Genres (4)
6. Four units chosen from:  
COMM 343. Nonfiction Reporting and Writing (4)  
COMM 380. Visual Communication (4)  
COMM 381. Development of Motion Pictures (4)  
ENG 315. Studies in a Literary Genre (4)  
ENG 463. Advanced Studies in Literary Topics (4)  
TA 465. Ethnic Film and Filmmakers (4)

**Note:** Students are able to receive credit for summer arts courses pertaining to the minor.

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**MINOR IN THEATRE ARTS**

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**Requirements (24 units)****Requirements for a minor in Theatre Arts:**

Lower-division requirement (4 units)

1. TA 260. Introduction to Theatre (4)

Upper-division requirement (2 units)

1. Two units chosen from:  
TA 320A. Performance Practicum: Main Stage (2)  
TA 320B. Performance Practicum: Imagination Players (2)  
TA 320C. Performance Practicum: Touring Theatre (2)  
TA 320E. Performance Practicum: Special Projects (2)  
TA 320F. Performance Practicum: Dance Performance (2)  
TA 320G. Performance Practicum: Puppetry Performance (2)  
TA 321A. Technical Practicum (1)  
TA 321B. Technical Practicum (2)

Emphases (18 units)

Eighteen units chosen from one of the following emphases (minimum of seven units must be upper-division):

**Acting Emphasis**

1. TA 251. Acting I: Games and Exercises (3)
2. TA 252. Acting II: Creating a Role (3)
3. TA 351. Acting III: Scene Study (3)
4. Nine units chosen from:  
TA 131. Makeup for Stage and Screen (3)  
TA 240. Improvisation (3)  
TA 245. Beginning Theatre Movement (2)  
TA 253. Voice for the Stage (2)  
TA 345. Advanced Voice and Movement (2)  
TA 346. Directing I (3)  
TA 352. Acting IV: Modern Repertory (3)  
TA 353. Acting V: Styles of Acting (3)  
TA 354. Acting VI: Acting Shakespeare (3)  
TA 355. Acting VII: Acting Musicals (3)  
TA 357. Acting for the Camera (3)  
TA 446. Directing II (3)

**Dance Emphasis**

1. Ten units chosen from:  
DAN 200A. Studies in Dance: Jazz (2)  
DAN 200B. Studies in Dance: Modern (2)  
DAN 200C. Studies in Dance: Tap (2)  
DAN 200D. Studies in Dance: Ballet (2)  
DAN 300A. Dance Techniques: Jazz (2)  
DAN 300B. Dance Techniques: Modern (2)  
DAN 300C. Dance Techniques: Tap (2)  
DAN 300D. Dance Techniques: Ballet (2)  
DAN 300E. Dance Techniques: Musical Theatre (2)  
DAN 310A. World Dance Traditions: African (2)  
DAN 310B. World Dance Traditions: South and Central American (2)  
DAN 310C. World Dance Traditions: North American (2)  
DAN 310D. World Dance Traditions: Asian (2)  
DAN 310E. World Dance Traditions: Mediterranean (2)
2. Eight units chosen from:  
DAN 355. Dance Notation (3)  
DAN 360. Dance History (4)  
DAN 450. Choreography (3)  
DAN 481. Creative Dance in the Classroom (4)  
DAN 580. Advanced Creative Dance Methods (4)  
TA 131. Makeup for Stage and Screen (3)  
TA 231. Sound for Stage and Screen (3)  
TA 232. Lighting for Stage and Screen (3)

- TA 233. Costume Construction (3)
- TA 240. Improvisation (3)
- TA 245. Beginning Theatre Movement (2)

**Design/Technical Emphasis**

1. TA 235. Fundamentals of Stage Design (4)
2. Six units chosen from:
  - TA 131. Makeup for Stage and Screen (3)
  - TA 231. Sound for Stage and Screen (3)
  - TA 232. Lighting for Stage and Screen (3)
  - TA 233. Costume Construction (3)
  - TA 239. Stagecraft (3)
3. Eight units chosen from:
  - TA 130. Computer Applications for Technical Theatre (1)
  - TA 321A. Technical Practicum (1)
  - TA 321B. Technical Practicum (2)
  - TA 331. Theatre Management (4)
  - TA 332. Stage Lighting Design (3)
  - TA 334. Theatrecrafts (3)
  - TA 337. Design: Costume Design (3)
  - TA 338. Design: Scene Design (3)
  - TA 535. Independent Project (1-4)

**Drama Education Emphasis**

1. DAN 481. Creative Dance in the Classroom (4)
2. TA 481. Creative Drama in the Classroom (3)
3. Eleven units chosen from:
  - DAN 580. Advanced Creative Dance Methods (4)
  - TA 240. Improvisation (3)
  - TA 251. Acting I: Games and Exercises (3)
  - TA 320A. Performance Practicum: Main Stage (2)
  - TA 320B. Performance Practicum: Imagination Players (2)
  - TA 320C. Performance Practicum: Touring Theatre (2)
  - TA 321A. Technical Practicum (1)
  - TA 321B. Technical Practicum (2)
  - TA 385. Acting for Non-Majors (4)
  - TA 483. Children's Theatre (4)
  - TA 484. Readers Theatre in the Classroom (3)
  - TA 486. Puppetry in the Classroom (3)
  - TA 579. Theatre in the Elementary Classroom (4)
  - TA 580. Advanced Creative Drama in the Classroom (4)
  - TA 581. Theatre in the Secondary Classroom (4)

**Dramatic Literature Emphasis**

1. Eight units chosen from:
  - TA 302B. Analysis and Writing of Drama (4)
  - TA 347. Playwriting (4)
  - TA 505. Criticism of Theatre in Performance (4)
2. Eight units chosen from:
  - TA 450. Classical Drama (4)
  - TA 451. Mystery to Melodrama (4)
  - TA 455. Modern Drama I (4)
  - TA 456. Modern Drama II (4)
  - TA 457. Theatre of the Avant-Garde (4)
  - TA 461. American Drama (4)
  - TA 462. African-American Theatre and Drama (4)
  - TA 463. Asian Theatre (4)
  - TA 464. Theatre in the Post-Colonial World (4)
  - TA 466. Issues in Gay, Lesbian, Bisexual and Transgender Theatre (4)
  - TA 468. Chicana/o and Latina/o Theatre and Drama (4)
  - TA 475. Shakespeare I (4)
  - TA 476. Shakespeare II (4)
3. Two units chosen from:
  - TA 221. Theatre Laboratory: Performance (1)
  - TA 320A. Performance Practicum: Main Stage (2)
  - TA 320B. Performance Practicum: Imagination Players (2)

- TA 320C. Performance Practicum: Touring Theatre (2)
- TA 320E. Performance Practicum: Special Projects (2)
- TA 320F. Performance Practicum: Dance Performance (2)
- TA 320G. Performance Practicum: Puppetry Performance (2)
- TA 321A. Technical Practicum (1)
- TA 321B. Technical Practicum (2)
- TA 535. Independent Project (1-4)

**Puppetry Emphasis**

1. TA 334. Theatrecrafts (3) when the topic is puppetry
2. TA 356. Puppetry (3)
3. TA 358. Puppetry for the Camera (3)
4. TA 526. Puppetry Workshop (3)
5. Six units chosen from:
  - TA 233. Costume Construction (3)
  - TA 235. Fundamentals of Stage Design (4)
  - TA 240. Improvisation (3)
  - TA 253. Voice for the Stage (2)
  - TA 346. Directing I (3)
  - TA 351. Acting III: Scene Study (3)
  - TA 458. Theatre for Youth: History and Literature (4)
  - TA 486. Puppetry in the Classroom (4)

**CERTIFICATE PROGRAMS**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to (a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. See Page 58 for additional certificate information.

**Certificate in Puppetry****Certificate Requirements (32 units)**

1. TA 334. Theatrecrafts (3) when the topic is puppetry
2. TA 356. Puppetry (3)
3. TA 358. Puppetry for the Camera (3)
4. TA 458. Theatre for Youth: History and Literature (4)
5. TA 526. Puppetry Workshop (3)
6. Four units chosen from:
  - TA 233. Costume Construction (3)
  - TA 235. Fundamentals of Stage Design (4)
  - TA 321A. Technical Practicum (1)
  - TA 321B. Technical Practicum (2)
7. Twelve units chosen from:
  - TA 240. Improvisation (3)
  - TA 253. Voice for the Stage (2)
  - TA 351. Acting III: Scene Study (3)
  - TA 346. Directing I (3)
  - TA 484. Readers Theatre in the Classroom (3)
  - TA 486. Puppetry in the Classroom (4)

**Certificate in Theatre for Youth****Certificate Requirements (32 units)**

1. TA 481. Creative Drama in the Classroom (3)
2. TA 483. Children's Theatre (4)
3. Six units chosen from:
  - TA 240. Improvisation (3)
  - TA 484. Readers Theatre in the Classroom (3)
  - TA 486. Puppetry in the Classroom (3)
  - TA 446. Directing II (3)

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4. Four units chosen from:
  - TA 579. Theatre in the Elementary Classroom (4)
  - TA 580. Advanced Creative Drama in the Classroom (4)
  - TA 581. Theatre in the Secondary Classroom (4)
5. Four units chosen from:
  - TA 320A. Performance Practicum: Main Stage (2)
  - TA 320B. Performance Practicum: Imagination Players (2)
  - TA 320C. Performance Practicum: Touring Theatre (2)
  - TA 320E. Performance Practicum: Special Projects (2)
  - TA 320F. Performance Practicum: Dance Performance (2)
  - TA 385. Acting for Non-Majors (4)
6. Three units chosen from:
  - TA 131. Makeup for Stage and Screen (3)
  - TA 231. Sound for Stage and Screen (3)
  - TA 232. Lighting for Stage and Screen (3)
  - TA 233. Costume Construction (3)
  - TA 235. Fundamentals of Stage Design (4)
  - TA 239. Stagecraft (3)
  - TA 321A. Technical Practicum (1)
  - TA 321B. Technical Practicum (2)
  - TA 334. Theatrecrafts (3)
7. Eight units chosen from:
  - TA 221. Theatre Laboratory: Performance (1)
  - TA 347. Playwriting (4)
  - TA 446. Directing II (3)
  - TA 461. American Drama (4)
  - TA 462. African-American Theatre and Drama (4)
  - TA 463. Asian Drama (4)
  - TA 466. Issues in Gay, Lesbian, Bisexual and Transgender Theatre (4)
  - TA 468. Chicana/o and Latina/o Theatre and Drama (4)
  - TA 510. Studies of Major Figures and Genres (4)
  - TA 520. Theatre Seminar (4)

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**COURSE OFFERINGS IN  
THEATRE ARTS (TA)**

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**Lower Division****130. Computer Applications for Technical Theatre**

Introduction to computer programs and techniques with applications for theatrical design and production. May be repeated for credit. (1 unit)

**131. Makeup for Stage and Screen**

Theory and application of makeup for theatre, television and film. (TA 131=CAN DRAM 14) (3 units)

**160. World Drama**

Selected readings of dramatic literature (in translation) from the 5th century B.C. to the present. (Also offered as ENG 160. Students may not receive credit for both.) Prerequisite: ENG 101 or equivalent. (GE=C2) (4 units)

**212. Oral Interpretation of Literature**

Literary and aesthetic analysis of poetry, prose or drama through performance techniques of oral interpretation. (GE=C2) (4 units)

**221. Theatre Laboratory: Performance**

Students direct, choreograph or perform in student-initiated productions, including student-written one-act plays, dance concerts and special performance-art pieces under the guidance of a faculty supervisor. A maximum of five units of TA 221 may be used to satisfy graduation requirements. (1 unit)

**223. Audition/Interview Preparation**

Students select and prepare material for acting auditions and technical interviews, both for inter-college competition and professional theatre/film work. Two hours activity. (1 unit)

**225. Festival Production**

Remounting and reconfiguring University production for touring to national and international festivals and venues. Two hours activity. (1 unit)

**231. Sound for Stage and Screen**

Basic design theories of stage and screen sound, production techniques, instrumentation and control equipment. (3 units)

**232. Lighting for Stage and Screen**

Basic electrical theory of stage lighting, production techniques, instrumentation and control equipment. (TA 232=CAN DRAM 10) (3 units)

**233. Costume Construction**

Costume techniques including basic pattern drafting, cutting, fitting and construction. (3 units)

**235. Fundamentals of Stage Design**

Study of the elements of color, line and texture as they relate to visual analysis of dramatic literature, through two- and three-dimensional projects in set, costume and lighting design. Three hours lecture and two hours activity. (4 units)

**239. Stagecraft**

Introduction to the theory and practice of scenery and prop construction including the use of tools, materials, techniques and drafting required in execution of designs. (TA 239=CAN DRAM 12) (3 units)

**240. Improvisation**

A beginning course in improvisational techniques for the actor and for those who will use drama as an educational tool. (3 units)

**245. Beginning Theatre Movement**

Beginning theory and fundamentals of specialized stage movement. (TA 245=CAN DRAM 20) (2 units)

**251. Acting I: Games and Exercises**

Foundation training for actors through theatre games, improvisation and exercises for developing expressive freedom, creativity, relaxation and concentration. (TA 251=CAN DRAM 8) (3 units)

**252. Acting II: Creating a Role**

Fundamentals for creating a role methodically. Improvisational exercises and textual performances exploring the use of such elements as objectives, given circumstances, character analysis and conflict. Prerequisite: TA 251. (TA 252=CAN DRAM 22) (3 units)

**253. Voice for the Stage**

Theory and practice of vocal techniques for the actor, including voice production, diction, flexibility, projection, and voice care. (TA 253=CAN DRAM 6) (2 units)

**260. Introduction to Theatre**

Introduction to the art of Theatre, including the nature of theatrical presentation and the contributions of the playwright, actor, director, designer, technician and audience to the process of theatremaking. Students will authentically experience this process as production crew or audience members. (GE=C1) (TA 260=CAN DRAM 18) (4 units)



**Upper Division****302. Analysis of Drama**

Credit allowed for only one of the following:

- A. Analysis. Literary analysis of selected plays with special emphasis on how to write about dramatic literature. Formerly TA 302. (Also offered as ENG 302A. Students may not receive credit for both.) Prerequisite: ENG 101. (4 units)
- B. Analysis and Writing. Literary analysis of selected plays with special emphasis on how to write about dramatic literature, as well as integrated practice in writing for performance. (Also offered as ENG 302B. Students may not receive credit for both.) Prerequisite: ENG 101. (4 units)

**320. Performance Practicum**

Main Stage students experience role preparation, rehearsal and acting before an audience; Imagination Players gain touring experience in rehearsal and performance of children's literature, readers theatre style; Touring Theatre students experience rehearsal and performance of adult dramatic material; special projects students experience production of student-developed projects; dance performance students experience choreography development, rehearsal and dancing before an audience. Puppetry students gain touring experience in the performance of puppetry. Open to all students. No more than eight units of Performance Practicum may be counted toward fulfilling course requirements in the theatre arts major. No more than four units of TA 320 and 321 may be counted toward fulfilling course requirements in the theatre arts minor. No more than 20 units of TA 320 and 321 may be used to satisfy graduation requirements. Each topic may be repeated for credit.

- A. Main Stage (admission by audition only) (2 units)
- B. Imagination Players (2 units)
- C. Touring Theatre (2 units)
- E. Special Projects (admission by audition only) (2 units)
- F. Dance Performance (admission by audition only) (2 units)
- G. Puppetry Performance (admission by audition only) (2 units)

**321. Technical Practicum**

Application of scenery, costumes, makeup, lighting, sound or stage management theories and techniques to live performance before an audience. Open to all students. No more than 10 units of TA 321 may be counted toward fulfilling course requirements in the theatre arts major. No more than four units of TA 320 and 321 may be counted toward fulfilling course requirements in the theatre arts minor. No more than 20 units of TA 320 and 321 may be used to satisfy graduation requirements. Formerly TA 320D.

- A. (1 unit)
- B. (2 units)

**331. Theatre Management**

Survey of fine arts management principles as they apply to theatre. (4 units)

**332. Stage Lighting Design**

Lighting design theories and emerging technologies. Light plots for various theatrical styles will be developed. May be repeated for credit. Prerequisites: TA 232 and 235. (3 units)

**333. Stage Sound Design**

Advanced theories and applications of sound design for the theatre with an emphasis on the integration of prerecorded sound effects with vocal reinforcement in a live performance environment. Prerequisite: TA 231. (3 units)

**334. Theatrecrafts**

Theory and application of a theatre craft such as: stage management, shop crafts, scene painting, millinery, pattern drafting, rendering. Experience with the craft will be provided. May be repeated for credit as topics change. (3 units)

**337. Design: Costume Design**

Advanced projects in the design of costumes with an emphasis on rendering techniques and stylization. May be repeated for credit. Prerequisite: TA 235. (3 units)

**338. Design: Scene Design**

Advanced projects in scene design, using both renderings and models. Concentration on an exploration of design styles. May be repeated for credit. Prerequisite: TA 235. (3 units)

**345. Advanced Voice and Movement**

Advanced theory and practice of voice and movement techniques for the actor. Prerequisites: TA 245 and 253 or consent of instructor. (2 units)

**346. Directing I**

Fundamentals of play directing through theory and practice. Prerequisite: TA 351 or consent of instructor. (3 units)

**347. Playwriting**

Fundamentals of play development, including plot, character, structure, and theme. Classroom exercises will culminate in students creating their own dramatic scenes and short plays. (Also offered as ENG 347.) May be repeated for credit. Prerequisite: one course from ENG 302A, 302B, TA 302A, 302B; or consent of instructor. (4 units)

**351. Acting III: Scene Study**

Application of acting techniques through scene study of plays in the contemporary repertory. Prerequisite: TA 252. (3 units)

**352. Acting IV: Modern Repertory**

Continued scene study with an emphasis on plays in the modern classical repertory (for example, Ibsen, Chekhov, Shaw). May be repeated once for credit. Prerequisite: TA 351. (3 units)

**353. Acting V: Styles of Acting**

Studies and performance of selected styles in theatre from classical times to the nineteenth century. May be repeated once for credit. Prerequisite: TA 351. (3 units)

**354. Acting VI: Acting Shakespeare**

Concentrated study on performing Shakespeare, with emphasis on voice, movement, and textual meaning. May be repeated once for credit. Prerequisite: TA 351. (3 units)

**355. Acting VII: Acting Musicals**

Concentrated study on performing musical theatre, with an emphasis on voice, dance and character development. May be repeated once for credit. Prerequisite: TA 351. (3 units)

**356. Puppetry**

Survey of the field of puppetry, including an overview of puppet forms and practitioners from an international perspective. Includes an introduction to puppet design, construction, and manipulation. Six hours activity. (3 units)

**357. Acting for the Camera**

Study and application of acting techniques unique to film and video. Prerequisite: TA 351 or 385. (3 units)

**358. Puppetry for the Camera**

Study and application of puppeteering techniques unique to film and video. Six hours activity. Prerequisite: TA 356 or 486. (3 units)

**361. Theatre History I: Origins Through Medieval**

Consideration of theatre architecture and theatre practices for the purpose of understanding the major trends in the development of theatre arts. Representative examples of dramatic literature will be read to illustrate those trends. (4 units)

**362. Theatre History II: Renaissance Through Eighteenth Century**

Consideration of theatre architecture and theatre practices for the purpose of understanding the major trends in the development of theatre arts. Representative examples of dramatic literature will be read to illustrate those trends. (4 units)

**363. Theatre History III: Nineteenth Century to the Present**

Consideration of theatre architecture and theatre practices for the purpose of understanding the major trends in the development of theatre arts. Representative examples of dramatic literature will be read to illustrate those trends. (4 units)

**385. Acting for Non-Majors**

Introduction to acting through exercises, improvisations and scene study. Not open to theatre arts majors. (4 units)

**401. History of Musical Theatre**

History of musical theatre literature and production. Also offered as MUS 401; students may not receive credit for both. (4 units)

**445. The Camera Eye**

Film as a creative art medium. Such topics as art direction and production design for film, sex and violence in film, and film and television lighting will be offered. May be repeated for credit as topics change. (4 units)

**446. Directing II**

Advanced studies in play directing. Prerequisite: TA 346. (3 units)

**450. Classical Drama**

Development of comedy and tragedy in Greece and Rome. (Also offered as ENG 450. Students may not receive credit for both.) (4 units)

**451. Mystery to Melodrama**

Development of drama from medieval passion plays to late nineteenth century villain-hissing melodramas. Emphasis on either comedy or tragedy. (4 units)

**455. Modern Drama I**

European, British and American realism. (Also offered as ENG 455. Students may not receive credit for both.) (4 units)

**456. Modern Drama II**

European, British and American anti-realism. (Also offered as ENG 456. Students may not receive credit for both.) (4 units)

**457. Theatre of the Avant-Garde**

Exploration and analysis of performance traditions from Dada to performance art. (4 units)

**458. Theatre for Youth: History and Literature**

Exploration and analysis of the history and literature of performance for young audiences, from its origins to current trends. (4 units)

**461. American Drama**

Survey of the American theatre and its drama (Dunlap to Odets) as they reflect the changing patterns of American society. (4 units)

**462. African-American Theatre and Drama**

A survey of the African-American theatre from its African origins in the oral tradition through contemporary trends, including issues of politics, race and gender in terms of the American theatre in general. Emphasis on African-American playwrights, companies and performers within their social and historical contexts. (GE=G2) (4 units)

**463. Asian Theatre**

Survey of significant Asian theatre forms from Indian dance-drama to Indonesian wayang kulit. Emphasis on how performance reflects and shapes both culture and identity. (GE=G2) (4 units)

**464. Theatre in the Post-Colonial World**

Dramatic literature and theatre of countries and cultures seeking to redefine their identity in a post-colonial world. Includes study of plays from India, Africa, Canada, South America, Asia and the Pacific Rim. (4 units)

**465. Ethnic Films and Film Makers**

Analysis, overview and exploration of performers, directors, screenwriters, and designers of films of a particular ethnic group. Emphasis on the artistic contributions of a particular ethnic group to the cinematic art form. May be repeated for credit as topics change. (4 units)

**466. Issues in Gay, Lesbian, Bisexual, and Transgender Theatre**

An examination of the culturally diverse body of theatre work dealing with Gay/Lesbian/Bisexual/Transgender issues. (4 units)

**468. Chicana/o and U.S. Latina/o Theatre**

Introduction to Chicana/o and Latina/o dramatic literature and performance in the U.S. (1965-present). Examines diverse factors associated with the birth and development of Chicana/o and Latina/o theatre. (4 units)

**475. Shakespeare I**

Comedies and history plays. (Also offered as ENG 475. Students may not receive credit for both.) Prerequisite: one course from ENG 301A, 301B, 302A, 302B; or consent of instructor. (4 units)

**476. Shakespeare II**

Tragedies and romances. (Also offered as ENG 476. Students may not receive credit for both.) Prerequisite: one course from ENG 301A, 301B, 302A, 302B; or consent of instructor. (4 units)

**481. Creative Drama in the Classroom**

Introduction to theory and practice of creative drama. Concentration, imagination and self-expression are emphasized in lesson planning as creative drama is used as a teaching tool across the curriculum. Designed in accordance with California and National standards for the arts. Two hours lecture and two hours of fine arts activity. (3 units)

**483. Children's Theatre**

Theory and techniques of selecting, directing and creating plays for young audiences. Course includes script analysis and directing from text as well as developing plays based on children's literature. The course presents approaches to children's theatre in community and educational settings. (4 units)

**484. Readers Theatre in the Classroom**

Theory and techniques of adapting, directing and performing non-dramatic children's literature for oral presentation and limited staging. Includes preparation and performance of scripts to be used for reading enhancement and interdisciplinary studies. Designed in accordance with California and National standards for the arts. Two hours lecture and two hours fine arts activity. (3 units)

**486. Puppetry in the Classroom**

Overview of the uses of puppets as interdisciplinary teaching tools in the elementary classroom. Emphasis on lesson planning and performance techniques for teachers. Two hours lecture and two hours fine arts activity. (3 units)

**505. Criticism of Theatre in Performance**

Critical analysis of public theatrical performance with an emphasis on the journalistic review. Textual analysis, artistic perception and aesthetic evaluation of acting, directing and design. Both individual and class attendance at several theatrical performances outside of regular meeting times will be required. Prerequisites: TA 302, ENG 306 or consent of instructor. (4 units)

**510. Studies of Major Figures and Genres**

Advanced study of a selected theatre topic. May be repeated for credit as topics change. (4 units)

**520. Theatre Seminar**

Literature and theory relative to topics such as: aesthetics, theatre history, drama, dramatic criticism and design. May be repeated for credit as topics change. (4 units)

**526. Puppetry Workshop**

Advanced study of a selected puppetry topic, including but not limited to: puppet design, puppet construction, puppetry performance, directing puppetry, and international puppet traditions. May be repeated for credit. Six hours activity. Prerequisite: TA 356 or 486. (3 units)

**535. Independent Project**

Advanced individual project in any aspect of departmental productions. A total of six units may apply toward the major, a total of 12 units may apply toward graduation. Prerequisite: consent of instructor. (1-4 units)

**555. Independent Study**

Study and analysis culminating in demonstrated expertise in the areas of performance, direction, design or theatre research. A total of six units may apply toward the major, a total of 12 units may apply toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (4 units)

**575. Internship in Theatre Arts**

Supervised study in private or public organizations. A total of 12 units may be applied toward graduation. Generally assumes thirty hours of work/study per unit of credit. Graded credit/no credit. Prerequisite: consent of internship coordinator. (1-6 units)

**579. Theatre in the Elementary Classroom**

Integrating aesthetic perception with creative expression in the elementary classroom through the application of theatrical performance and production techniques. This course includes 15 service learning hours in which students actually direct and create theatre within an elementary school classroom under the supervision of course instructor and classroom teacher. Prerequisite: TA 481 or 484 or consent of instructor. (4 units)

**580. Advanced Creative Drama in the Classroom**

Advanced methods of teaching across the curriculum using process-oriented creative drama techniques. Course concentrates on fostering imagination and self-expression through pantomime, improvisation and play making. Course includes developing creative drama/educational units and lesson plans as well as practical experience in an educational setting. Requires a six hour field component including observation and participation in teaching at an approved setting. Prerequisite: TA 481. (4 units)

**581. Theatre in the Secondary Classroom**

Integrating aesthetic perception with creative expression in the secondary classroom through the application of theatrical performance and production techniques. This course includes 15 service learning hours in which students actually direct and create theatre within a secondary school classroom under the supervision of course instructor and classroom teacher. Prerequisites: TA 302 or ENG 302, and TA 481 or 484. (4 units)

**585. Senior Assessment**

Student preparation of portfolio and self-critiques of artistic/research projects which document academic progress. Formal presentation of this collected material to be evaluated by peers and faculty. Two hours activity. Prerequisite: senior status; must be taken in spring quarter immediately prior to graduation. (1 unit)

**COURSE OFFERINGS IN DANCE (DAN)**

DAN 200.	Studies in Dance (2)
DAN 300.	Dance Techniques (2)
DAN 310.	World Dance Traditions (2)
DAN 355.	Dance Notation (3)
DAN 360.	Dance History (4)
DAN 450.	Choreography (3)
DAN 481.	Creative Dance in the Classroom (4)
DAN 580.	Advanced Creative Dance Methods (4)

See Page 146 for full course descriptions.

# UNIVERSITY HONORS PROGRAM

## University Honors Office

Pfau Library, Room 208  
(909) 537-7765

The University Honors Program at California State University, San Bernardino offers specialized courses and other enrichment opportunities for highly motivated students who seek an intellectual challenge. Most honors courses fulfill the general education requirements which all students at the university must meet; however, the curriculum is designed to add depth and breadth to the undergraduate course of study. Honors students are encouraged to take an active role in their own learning process, to think about problems they will face in creating the future, and to explore their roles in addressing these problems. Integration of subject matter across the curriculum is a primary goal of the program. Students will be encouraged to develop thinking skills and to use these skills in analyzing and evaluating problems of contemporary society. Honors students will have:

- Special academic advising;
- Priority registration;
- The opportunity to participate in honors activities such as lectures, concerts and art exhibits;
- Honors courses in basic skills such as writing, oral communication and critical thinking;
- Honors seminars which promote interaction among students and faculty;
- Honors courses in specific academic disciplines and interdisciplinary areas.

### Admission to the Program

Incoming freshmen, sophomores, juniors and transfer students who have shown scholastic ability, intellectual promise, and creativity are encouraged to apply for the University Honors Program. Incoming freshmen should have SAT scores of 1100 and/or ACT scores of 26 and above, a grade point average of at least 3.5, and be in the upper tenth of their graduating class. Sophomores, juniors and transfer students who have remained consistently on the Dean's List and/or have maintained a 3.5 overall grade point average in previous course work may apply to the program. In addition, any faculty member identifying a student as one who has the potential to profit from the challenge of the program may sponsor a student into the program, with the approval of the Honors Committee.

## UNIVERSITY HONORS PROGRAM

### Requirements of the Program:

To remain in good standing in the Honors Program, students are expected to maintain a grade point average of 3.3 ("B+") overall.

Requirements for students who enter the Honors Program as freshmen (38 units)

1. HON 104A. Language and Meaning: Critical Thinking (4)
2. HON 104B. Language and Meaning: Introduction to Philosophy (4)
3. HON 104C. Language and Meaning: Oral Communication (4)
4. HON 105A. Honors Colloquium (1)
5. HON 105B. Honors Colloquium (1)
6. HON 105C. Honors Colloquium (1)
7. HON 205A. Honors Seminar (1)
8. HON 205B. Honors Seminar (1)
9. HON 205C. Honors Seminar (1)
10. A senior project in a department (4)

11. Sixteen additional units of which eight must be upper-division, chosen from honors-designated courses.

Requirements for students who enter the Honors Program as sophomores (23 units)

1. HON 205A. Honors Seminar (1)
2. HON 205B. Honors Seminar (1)
3. HON 205C. Honors Seminar (1)
4. A senior project in a department (4)
5. Sixteen additional units of which eight must be upper-division, chosen from honors-designated courses.

Requirements for students who enter the Honors Program as juniors (15 units)

1. HON 205A. Honors Seminar (1)
2. HON 205B. Honors Seminar (1)
3. HON 205C. Honors Seminar (1)
4. A senior project in a department (4)
5. Eight additional upper-division units chosen from honors-designated courses.

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## COURSE OFFERINGS IN UNIVERSITY HONORS (HON)

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### Lower Division

#### 104. Language and Meaning

An integrated course in the Honors Program meeting General Education requirements for basic skills in critical thinking, philosophy and oral communication. Emphasizes using the various basic skills in the process of exploring specific current issues. Prerequisite: acceptance into the Honors Program. (GE=A2, A4, C4)

- A. Critical Thinking (GE=A4) (4 units)
- B. Introduction to Philosophy (GE=C4) (4 units)
- C. Oral Communication (GE=A2) (4 units)

#### 105. Honors Colloquium

Analysis and discussion of current ideas and events. Freshman students admitted to the Honors Program are required to enroll in the colloquium each of the three quarters of their freshman year. Graded credit/no credit. Prerequisite: acceptance into the Honors Program.

- A. (1 unit)
- B. (1 unit)
- C. (1 unit)

#### 205. Honors Seminar

Research and discussion of current events and ideas. Sophomore students continuing in the Honors Program, as well as students entering the program as sophomores or juniors, are required to enroll in the seminar each of the three quarters. Graded credit/no credit. Prerequisite: acceptance into the Honors Program.

- A. (1 unit)
- B. (1 unit)
- C. (1 unit)

### Upper Division

#### 306. Expository Writing

Advanced expository writing workshop for students in the Honors Program. Writing will include documented research reports, summaries, and analytical papers. Papers and research will be directed toward developing and preparing a final draft report for the senior project. Course fulfills the graduation requirement in writing proficiency. No more than one of the expository writing courses (EDUC 306, ENG 306, HON 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times



must meet with the 306 coordinator or designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly HON 495. Graded A, B, C/no credit. Prerequisites: acceptance into the Honors Program, ENG 101 and a minimum of 90 quarter (60 semester) units of college credit. (4 units)

**315. Special Topics**

Examination of selected topics for students in the Honors Program. May be repeated for credit as topics change. Prerequisite: acceptance into the Honors Program. (4 units)

**598. Honors Senior Project**

Provides an opportunity for students to conduct an independent project under faculty supervision. Project may be a lengthy research paper, a public performance, a laboratory experiment, a work of art, or may take other forms. Prerequisites: acceptance into the Honors Program and senior standing. (4 units)

# UNIVERSITY STUDIES

## Office of the Dean of Undergraduate Studies

University Hall, Room 368  
(909) 537-5032 <http://www-ugs.csusb.edu/>

The Office of the Dean of Undergraduate Studies offers the following courses in support of other university programs. All courses are listed in the University Studies section of the Schedule of Classes each quarter.

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### COURSE OFFERINGS IN UNIVERSITY STUDIES (USTD)

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#### 25. Academic Study Skills

Designed for the student who needs to work on an independent basis in reading or writing with a developmental specialist or tutor. The course will emphasize comprehension, vocabulary and the writing process after diagnosis of student's needs. Units awarded are not applicable to a baccalaureate degree. May be repeated for credit as topics change. Graded credit/no credit. Prerequisite: consent of Learning Center program coordinator.

- A. English 85 (2 units)
- B. English 95 (2 units)
- C. English 101 (2 units)
- D. English 306 (2 units)
- E. General (2 units)

#### 27. Individualized Study Contract

Designed for the student who needs to work on an independent basis under the direction of a study specialist in order to improve skills such as handwriting or spelling. May be repeated. Units awarded are not applicable to a baccalaureate degree. Graded credit/no credit. (1-2 units)

#### 37. Introduction to College Study Skills

Introduction to skills needed for success in college, focusing on study strategies such as: time management, listening, note taking and learning from text. Units awarded are not applicable to a baccalaureate degree. Graded credit/no credit. (4 units)

#### 40. Advanced Notetaking and Organization

Instruction in adaptation of note taking skills across the curriculum with emphasis on editing, organizing and combining notes from text, class, lab, field and library. Organization of content to enhance concentration and memory and improve test taking ability. Units awarded are not applicable to a baccalaureate degree. Graded credit/no credit. Prerequisite: USTD 37 or consent of instructor. (2 units)

#### 45. College Reading

Instruction in reading comprehension improvement, vocabulary development and some speed reading techniques. May be repeated. Units awarded are not applicable to a baccalaureate degree. Graded credit/no credit. Prerequisite: consent of the SAIL (Student Assistance in Learning) Program, UH-386. (2 units)

#### 77. Adjunct for Specific Subjects

Taught as a support to specifically designated general education courses in mathematics, social and behavioral sciences and communication studies. The courses emphasize mastery of lecture and textbook content, study skills, and test preparation. May be repeated for credit as topics change. Units awarded are not applicable to a baccalaureate degree. Graded credit/no credit. Prerequisite: consent of SAIL (Student Assistance in Learning) Program, UH-386. (2 units)

#### 99. Reading Enhancement

Designed for academically prepared students for advanced instruction in the areas of reading comprehension, vocabulary development and speed reading techniques improvement. May include preparation for reading portions of standardized tests such as the CBEST and GRE. May be repeated. Units awarded are not applicable to a baccalaureate degree. Graded credit/no credit. (2 units)

#### Lower Division

#### 100. First Year Seminar

Introduction to the university's history and its mission to enhance the intellectual, cultural and personal development of each student. Application of the First-Year Student Success principles which include: developing academic and intellectual competence; establishing and maintaining interpersonal relationships; developing personal identity; deciding on a major, career and lifestyle; maintaining personal health and wellness; developing an integrated multicultural philosophy of life. Students will develop necessary academic and practical skills through use of university support facilities; learning campus policies and procedures; strengthening study skills; understanding the community service learning concept; and developing responsible academic and personal attitudes for student success. Graded A, B, C/no credit.

- A. Freshman Seminar. May be taken only by new freshman students during their first term of attendance. May not be repeated for credit. (2 units)
- B. Transfer Student Seminar. May be taken only by transfer students during their first term of attendance. May not be repeated for credit. (2 units)

# VOCATIONAL EDUCATION

Chaparral Hall, Room 123C  
(909) 537-5290 [HTTP://VE.CSUSB.EDU](http://VE.CSUSB.EDU)

## Bachelor of Science

Vocational Education

## Bachelor of Vocational Education (BVE)

## Master of Arts

Career and Technical Education Option  
(Degree requirements can be found on Page 396.)

**FACULTY:** Ron Pendleton, Joseph Scarcella

## B.S. IN VOCATIONAL EDUCATION

### Requirements (48 units)

#### Total units required for graduation: 186

**NOTE:** At this time no students are being admitted to the B.S. in Vocational Education

### Admission to the Program

The Bachelor of Science Degree with a major in Vocational Education is designed to provide students who have significant occupational experience the opportunity to have that experience count as partial credit towards a baccalaureate degree. Qualified applicants can have their work experience evaluated and may be awarded up to 45 units of credit for prior learning which will be applied toward the degree.

In order to qualify for these occupational specialty units, students must have three years full-time, paid occupational work experience and one of the following:

1. Successfully pass the National Occupational Competency Examination (NOCE) in a specialization;
2. An Associate of Arts Degree from a regionally accredited institution in an approved vocational subject field;
3. Have a Swan Bill evaluation done by a State Evaluation Committee. (This requires seven years of paid work experience in addition to 1620 hours full time or 1000 hours part time teaching in an approved institutional program.)

**Note:** Occupational experience evaluation will only be completed for students who have completed at least 16 quarter units at CSUSB.

Occupational work experience credit is based upon the criteria currently stipulated by the state of California. Students not awarded the full 45 units of work experience credit will be required to take additional elective courses or internships to reach the total of 186 units required for the degree. No more than 45 units of credit by exam of any sort (CLEP, DANTE, EEE, etc.) may be counted toward the degree.

Students must have a minimum of three years paid work experience in order to be admitted to this program.

### Requirements for Graduation

- A. Students must complete a minimum of 186 quarter units.
  1. At least 45 of these units must be completed as a regularly enrolled student at this university;
  2. At least 60 of these units must be in upper-division course work;
  3. It is recommended that students choose the following courses to fulfill the general education requirements:
    - a. COMM 120. Oral Communication
    - b. MATH 110. College Algebra
    - c. ECON 104. Introduction to Economics

d. One of the following (both are recommended):

CHEM 100. Chemistry in the Modern World  
PHYS 100. Physics in the Modern World

4. Up to 45 units may be completed within the occupational specialty and/or in approved electives;
- B. Students must earn a grade point average of 2.0 ("C") or better in all work attempted;
- C. Students must complete the upper-division writing requirement, EDUC 306;
- D. Students must complete the history, constitution and government requirements listed in the general education requirements on Page 65.

### Degree Requirements (48 units)

1. ETEC 544. Design and Development of Instructional Materials I (4)
2. EVOC 335. Introduction to Vocational Education (4)
3. EVOC 508. Organization and Structure of Designated Subjects Programs (4)
4. EVOC 509. Personnel Management in Designated Subjects Programs (4)
5. Choose one of the following:
  - EVOC 510. Field Work in Coordination and Supervision of Designated Subjects Programs (4)
  - EVOC 518. Field Work in Designated Subjects (4)
6. EVOC 519. Computer Applications for Vocational Education Teachers (4)
7. EVOC 520. Curriculum Development in Vocational Education (4)
8. EVOC 521. Assessing Vocational Student Progress (4)
9. EVOC 522. Directing and Managing Occupational Programs (4)
10. EVOC 523. Learning Theory and Instructional Research Applied to Adult Learners (4)
11. Four units chosen from:
  - MGMT 302. Management and Organizational Behavior (4)
  - PSYC 302. Management and Organizational Behavior (4)
  - MGMT 455. Human Resources Management (4)

## BACHELOR OF VOCATIONAL EDUCATION (BVE) DEGREE PROGRAM

### Requirements (76 units)

#### Total units required for graduation: 180

### Admission to the Program

The Bachelor of Vocational Education (BVE) Degree Program has been designed to provide vocational and occupational teachers who have significant occupational and teaching experience the opportunity to have that experience count as partial credit toward a baccalaureate degree. Qualified applicants can have their work experience evaluated (under provisions of the Swan Bill) and may be awarded up to 60 units of academic credit which will be applied toward meeting the Vocational Arts Major requirements.

**Note:** In order to qualify for a Swan Bill Evaluation an applicant must have at least five years of paid full-time work experience, at least 1620 hours of full-time or 1000 hours of part-time teaching experience and an appropriate teaching credential.

Applicants must be admitted to the university and should take EVOC 335. Introduction to Vocational Education as soon as possible.

**342 / Vocational Education****Requirements for Graduation**

1. Students must complete a minimum of 180 quarter units of college credit:
  - a. At least 45 of these units must be completed as a regularly enrolled student at this university;

**Note:** Up to 105 quarter units of lower-division course work may be accepted as transfer credit from an accredited community college or other accredited postsecondary educational institutions.

  - b. At least 60 of these units must be in upper-division course work;
  - c. Eighty-two of these units must be in the area of general education as specified in the general education requirements, Page 66;
  - d. Forty-four of these units must be within the vocational arts major. All or most of these units are usually awarded as the result of the Swan Bill Evaluation of the applicant's occupational and teaching experience. At least 20 of these units are counted as upper-division;
  - e. Thirty-two of these units must be in the area of professional education and the vocational credential courses (or their equivalent);
  - f. Twenty-four of these units will consist of electives;
2. Students must earn a grade point average of 2.0 ("C") or better in all work attempted and 3.0 ("B") or better in all professional education courses attempted;
3. Students must complete the upper-division writing requirement (EDUC 306);
4. Students must complete the history, constitution and government requirements (see Page 69);
5. Students must be recommended for graduation by the faculty of the university.

**Requirements for the Bachelor in Vocational Education (BVE) Degree:**

General Education requirements (82 units)

Vocational Arts Major (44 units), a maximum of 60 units may be awarded by Swan Bill evaluation

Upper-division requirements (32 units)

1. EVOC 335. Introduction to Vocational Education (4)
2. EVOC 501. Principles and Methods for Teaching Designated Subjects (4)
3. EVOC 502. Instructional Support for Teaching Designated Subjects (4)
4. EVOC 503. Contemporary Issues in Teaching Designated Subjects (4)
5. EVOC 504. Principles of Adult Education (4)
6. EVOC 518. Field Work in Designated Subjects (4)
7. EVOC 519. Computer Applications for Vocational Education Teachers (4)
8. EVOC 520. Curriculum Development in Vocational Education (4)

Electives (24 units)

1. Twenty-four units of free electives.

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**COURSE OFFERINGS IN  
VOCATIONAL EDUCATION (EVOC)**

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**Upper Division****335. Introduction to Vocational Education**

Introduction to the history, philosophy, literature and organizations of vocational education. In-depth study of the Swan Bill application process and the Bachelor of Vocational Education degree program. Prerequisite: sufficient work and teaching experience to qualify for a Swan Bill evaluation or consent of instructor. (4 units)

**501. Principles and Methods for Teaching  
Designated Subjects**

Application of instructional methodology for designated subjects with emphasis on student performance objectives, lesson planning, teaching methods, educational materials, and evaluation techniques. (4 units)

**502. Instructional Support for Teaching  
Designated Subjects**

Examination of instructional support for designated subjects with emphasis on program advisory committees, student placement, facilities planning, budgeting, student organizations, public relations, career advancement and educational philosophy. Prerequisite: EVOC 501 or consent of instructor. (4 units)

**503. Contemporary Issues in Teaching  
Designated Subjects**

Examination of contemporary issues in designated subjects with emphasis on individual education plans, basic skills, school law, multicultural activities, special needs students, safety and performance assessment instruments. Prerequisite: EVOC 501 or consent of instructor. (4 units)

**504. Principles of Adult Education**

History, philosophy and social significance of adult education, especially in California; the adult as a student; investigation of the theories and application of the principles of adult education. (4 units)

**508. Organization and Structure of Designated  
Subjects Programs**

Investigation and application of principles of facility planning, budgeting, funding sources and related topics as they apply to designated subjects instructional programs. Prerequisite: a valid designated subjects teaching credential. (4 units)

**509. Personnel Management in Designated  
Subjects Programs**

Principles of personnel selection, evaluation, supervision, school law and related topics as they apply to designated subjects instructional programs. Prerequisite: a valid designated subjects teaching credential. (4 units)

**510. Field Work in Coordination and Supervision  
of Designated Subjects Programs**

Supervised field work in coordination and supervision of designated subjects programs. Students will contract to perform administrative tasks related to site-based instructional programs. Prerequisites: a valid designated subjects teaching credential and completion of, or concurrent enrollment in EVOC 508 and 509 or consent of instructor. (4 units)



**518. Field Work in Designated Subjects**

Supervised field work for the Designated Subjects Teaching Credential. Includes lesson planning and instructional delivery in an actual teaching environment with evaluation of teaching performance by the on-site supervisor. Prerequisites or corequisites: EVOC 501 and consent of instructor. (4 units)

**519. Computer Applications for Vocational Education Teachers**

Application of personal computers to the preparation of written, graphic, data base, telecommunication and interactive media materials used by teachers of vocational, occupational and professional courses. Three hours lecture and two hours laboratory. Lecture and laboratory sections must be taken concurrently. (4 units)

**520. Curriculum Development in Vocational Education**

Theory and principles of curriculum development as they apply to vocational, occupational and professional courses. Students will develop a complete curriculum for a course that they could teach. Prerequisite: EVOC 501 or its equivalent. (4 units)

**521. Assessing Vocational Student Progress**

The development and use of evaluation instruments such as written tests, and criterion-referenced and norm-referenced evaluations. Prerequisite: EVOC 520 or consent of instructor. (4 units)

**522. Directing and Managing Occupational Programs**

Principles and techniques of design, implementation, management and evaluation of training organizations and programs. Prerequisites: EVOC 520 and MGMT 302 or PSYC 302. (4 units)

**523. Learning Theory and Instructional Research Applied to Adult Learners**

Application of psychological principles to learning processes relevant to adult learners. Focus is on informed decisions about psycho-educational designs which will maximize individual development in cognitive, affective, conative, and psychomotor areas. (4 units)

**542. Seminar in Vocational Education**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-4 units)

# WOMEN'S STUDIES

## College of Social and Behavioral Sciences

### Women's Studies Program

University Hall, Room 201.46  
(909) 537-5838 <http://womensstudies.csusb.edu>

### Minor

Women's Studies

### Certificate Program

Women's Studies

**COORDINATOR:** Pamela Schram

The university offers a minor and certificate program in Women's Studies. The program combines a variety of disciplines to explore issues of gender and sexuality from a feminist perspective. Moreover, the program seeks to understand how discrimination based on the intersections of sex, gender, race, ethnicity, class and sexual orientation affects us all. By approaching the study of gender from multiple perspectives—from many disciplines, with theory and through practice, and from women's as well as lesbian, gay, bisexual, and transgender perspectives—it becomes evident how feminist studies help us to propagate our abilities to rectify injustices and create a more equitable society. Students should consult with the coordinator when choosing elective courses.

## MINOR IN WOMEN'S STUDIES

### Requirements (28 units)

#### Requirements for a minor in Women's Studies:

1. WSTD 100. Introduction to Women's Studies (4)
2. WSTD 420. Feminist Theory (4)
3. WSTD 425. Women as Agents of Social Change (4)
4. Sixteen units chosen from one of the following concentrations:

#### General Women's Studies Emphasis

1. Sixteen units chosen from:
  - ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
  - ART 305. Women and Art (4)
  - BIOL 314. Biology of Human Sexuality (4)
  - COMM 364. Topics in Human Communication (when the topic is Gay/Lesbian Relationships) (4)
  - COMM 401. Gender, Race and Media (4)
  - COMM 411. Gender and Communication (4)
  - COMM 511. Feminist Contributions to Communication Theories (4)
  - CJUS 451. Women and Crime (4)
  - CJUS 462. Domestic Violence and the Criminal Justice System (4)
  - ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)

May choose only one of the following two courses:

- ECON 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (4)
- WSTD 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (4)

- ENG 319. Studies in Literary Diversity: Gay Literature (4)
- ENG 319. Studies in Literary Diversity: Lesbian Literature (4)

- ENG 321. Studies in Language and Linguistics: Language and Gender (4)

May choose only one of the following two courses:

- ENG 336. Women Writers (4)
- WSTD 336. Women Writers (4)
- FLAN 320. Masterpieces of Literature: Hispanic Women Writers (4)
- FREN 336. Francophone Women Writers (4)
- HSCI 404. Women's Health Issues (4)
- HIST 344. Women in U.S. History: 1620-1865 (4)
- HIST 345. Women in U.S. History: 1865-Present (4)

May choose only one of the following three courses:

- HUM 325. Perspectives on Gender (4)
- NSCI 325. Perspectives on Gender (4)
- SSCI 325. Perspectives on Gender (4)
- PHIL 364. Philosophy of Race and Ethnicity (4)
- PHIL 367. Gender and Philosophy (4)
- PSCI 340. Sex and Politics (4)
- PSYC 331. The Psychology of Women (4)
- PSYC 341. Women and Violence (4)
- PSYC 349. The Psychology of Gays and Lesbians (4)
- SOC 336. Black Women and Feminism (4)
- SOC 444. Sociology of Gender (4)
- TA 466. Issues in Gay, Lesbian, Bisexual and Transgender Theatre (4)
- WSTD 103. Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (4)
- WSTD 300. Feminist Research Methods (4)
- WSTD 390. Topics in Women's Studies (4)
- WSTD 450. Queer Theory (4)
- WSTD 575. Internship in Women's Programs and Services (2) for a total of (4)
- WSTD 595. Independent Study (2-5) for a maximum of (8)

#### Lesbian, Gay, Bisexual, and Transgender Studies Emphasis

1. WSTD 103. Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (4)
2. Eight units chosen from:
  - COMM 364. Topics in Human Communication (when the topic is Gay/Lesbian Relationships) (4)

May choose only one of the following two courses:

- ECON 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (4)
- WSTD 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (4)
- ENG 319. Studies in Literary Diversity: Gay Literature (4)
- ENG 319. Studies in Literary Diversity: Lesbian Literature (4)
- PSYC 301. Psychology of Human Sexuality (4)
- PSYC 349. The Psychology of Gays and Lesbians (4)
- TA 466. Issues in Gay, Lesbian, Bisexual, and Transgender Theatre (4)
- WSTD 450. Queer Theory (4)

3. Four units chosen from any other Women's Studies course or cross-listed elective.

#### Literature, Media and the Arts Emphasis

1. Twelve units chosen from:
  - ART 305. Women and Art (4)
  - COMM 364. Topics in Human Communication (when the topic is Gay/Lesbian Relationships) (4)
  - COMM 401. Gender, Race and Media (4)
  - COMM 411. Gender and Communication (4)
  - COMM 511. Feminist Contributions to Communication Theories (4)
  - ENG 319. Studies in Literary Diversity: Gay Literature (4)
  - ENG 319. Studies in Literary Diversity: Lesbian Literature (4)

ENG 321. Studies in Language and Linguistics: Language and Gender (4)

May choose only one of the following two courses:

ENG 336. Women Writers (4)

WSTD 336. Women Writers (4)

FLAN 320. Masterpieces of Literature: Hispanic Women Writers (4)

FREN 336. Francophone Women Writers (4)

May choose only one of the following three courses:

HUM 325. Perspectives on Gender (4)

NSCI 325. Perspectives on Gender (4)

SSCI 325. Perspectives on Gender (4)

PHIL 364. Philosophy of Race and Ethnicity (4)

PHIL 367. Gender and Philosophy (4)

TA 466. Issues in Gay, Lesbian, Bisexual and Transgender Theatre (4)

WSTD 103. Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (4)

WSTD 300. Feminist Research Methods (4)

WSTD 390. Topics in Women's Studies (4)

WSTD 450. Queer Theory (4)

WSTD 575. Internship in Women's Programs and Services (2) for a total of (4)

WSTD 595. Independent Study (2-5) for a maximum of (8)

2. Four units chosen from any other Women's Studies course or cross-listed elective.

#### Society and Social Justice Emphasis

1. Twelve units chosen from:

ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)

CJUS 451. Women and Crime (4)

CJUS 462. Domestic Violence and the Criminal Justice System (4)

ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)

May choose only one of the following two courses:

ECON 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (4)

WSTD 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (4)

HIST 344. Women in U.S. History: 1620-1865 (4)

HIST 345. Women in U.S. History: 1865-Present (4)

May choose only one of the following three courses:

HUM 325. Perspectives on Gender (4)

NSCI 325. Perspectives on Gender (4)

SSCI 325. Perspectives on Gender (4)

PSCI 340. Sex and Politics (4)

PSYC 331. The Psychology of Women (4)

PSYC 341. Women and Violence (4)

PSYC 349. The Psychology of Gays and Lesbians (4)

SOC 336. Black Women and Feminism (4)

SOC 444. Sociology of Gender (4)

WSTD 103. Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (4)

WSTD 300. Feminist Research Methods (4)

WSTD 390. Topics in Women's Studies (4)

WSTD 450. Queer Theory (4)

WSTD 575. Internship in Women's Programs and Services (2) for a total of (4)

WSTD 595. Independent Study (2-5) for a maximum of (8)

2. Four units chosen from any other Women's Studies course or cross-listed elective.

**Special Topic Courses:** Students may receive credit toward an elective for the Women's Studies Minor for special topic courses

offered in other departments that take gender, gender identity, or sexual orientation as the main focus of the course. Contact the coordinator of the Women's Studies Program for permission.

### CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to (a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. See Page 58 for additional certificate information.

#### Certificate in Women's Studies

##### Certificate requirements (28 units)

1. Twenty-eight units chosen from:

ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)

ART 305. Women and Art (4)

BIOL 314. Biology of Human Sexuality (4)

COMM 364. Topics in Human Communication (when the topic is Gay/Lesbian Relationships) (4)

COMM 401. Gender, Race and Media (4)

COMM 411. Gender and Communication (4)

CJUS 451. Women and Crime (4)

ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)

May choose only one of the following two courses:

ECON 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (4)

WSTD 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (4)

ENG 319. Studies in Literary Diversity: Gay Literature (4)

ENG 319. Studies in Literary Diversity: Lesbian Literature (4)

May choose only one of the following two courses:

ENG 336. Women Writers (4)

WSTD 336. Women Writers (4)

FLAN 320. Masterpieces of Literature: Hispanic Women Writers (4)

HSCI 404. Women's Health Issues (4)

HIST 344. Women in U.S. History: 1620-1865 (4)

HIST 345. Women in U.S. History: 1865-Present (4)

May choose only one of the following three courses:

HUM 325. Perspectives on Gender (4)

NSCI 325. Perspectives on Gender (4)

SSCI 325. Perspectives on Gender (4)

PHIL 364. Philosophy of Race and Ethnicity (4)

PHIL 367. Gender and Philosophy (4)

PSCI 340. Sex and Politics (4)

PSYC 331. The Psychology of Women (4)

PSYC 341. Women and Violence (4)

PSYC 349. The Psychology of Gays and Lesbians (4)

SOC 336. Black Women and Feminism (4)

SOC 444. Sociology of Gender (4)

TA 466. Issues in Gay, Lesbian, Bisexual, and Transgender Theatre (4)

WSTD 100. Introduction to Women's Studies (4)

WSTD 103. Introduction to Gay, Lesbian, Bisexual, and Transgender Studies (4)

WSTD 300. Feminist Research Methods (4)

WSTD 390. Topics in Women's Studies (4)

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- WSTD 420. Feminist Theory (4)  
WSTD 425. Women as Agents of Social Change (4)  
WSTD 450. Queer Theory (4)  
WSTD 575. Internship in Women's Programs and Services (2) for a total of (4)  
WSTD 595. Independent Study (2-5) for maximum of (8)

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**COURSE OFFERINGS IN  
WOMEN'S STUDIES (WSTD)**

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**Lower Division****100. Introduction to Women's Studies**

An introduction to the growing body of women's studies scholarship. Includes feminist theories of gender stratification and introduces women's issues, experiences and achievements in a variety of fields. Formerly WSTD 200. (GE=D4) (4 units)

**103. Introduction to Lesbian, Gay, Bisexual, and Transgender Studies**

Interdisciplinary overview of the field of lesbian, gay, bisexual, and transgender studies. Explores both historical events and contemporary issues related to LGBT Studies, drawing readings from various academic disciplines including anthropology, the arts, communication studies, history, literature, philosophy, psychology, the sciences, sociology and women's studies. (4 units)

**Upper Division****300. Feminist Research Methods**

Development and implementation of research (quantitative or qualitative) that explores in depth one or more facets of women's experiences. (4 units)

**336. Women Writers**

Literary analysis of selected works by women writers, with special emphasis on historical and contemporary issues of women's lives. (Also offered as ENG 336. Students may not receive credit for both.) (4 units)

**357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People**

Examination of lesbian, gay, bisexual and transgendered (LGBT) households and individuals within the economy, including topics such as "gay consumer market," the division of labor within LGBT households, and discrimination based on sexual orientation. (Also offered as ECON 357, students may not receive credit for both.) (4 units)

**390. Topics in Women's Studies**

Examination of selected topics of current interest in women's studies. May be repeated for credit as topics change. (4 units)

**420. Feminist Theory**

Survey of feminist theory. Prerequisite: WSTD 100 or consent of instructor. (4 units)

**425. Women as Agents of Social Change**

Historical and contemporary analysis of women as agents of social change, including responses to gender-based discrimination, consideration of feminist theories of social change and debates over desired directions for the future of societies. Prerequisite: WSTD 100 or consent of instructor. (4 units)

**450. Queer Theory**

Introduction to queer theory through an examination of key theoretical texts, providing an interdisciplinary survey of theories of sexual diversity within changing historical and cultural contexts. (4 units)

**575. Internship in Women's Programs and Services**

Supervised work and study in private or public organizations involving women's issues. May be repeated once for credit, a total of eight units may apply toward graduation. Graded credit/no credit. Prerequisite: consent of the Women's Studies Program Committee coordinator. (2-4 units)

**595. Independent Study**

Investigation of special topics in women's studies that are not covered by the curricular offerings in women's studies or the cross-listed offerings from other departments. No more than eight units of independent study may be applied toward the minor or certificate in women's studies. Prerequisites: junior standing, consent of instructor and approval by the Women's Studies Program Committee coordinator. (2-5 units)



# GRADUATE DEGREE PROGRAMS

## Office of Graduate Studies

Administration Building, Room 127  
(909) 537-5058 <http://gradstudies.csusb.edu>

Graduate Studies is a large part of the university. At any given time approximately one quarter of the students attending CSUSB already have bachelor's degrees and are earning certificates, credentials, master's degrees, a doctorate, or are pursuing knowledge for their own pleasure. Graduate Studies offers varied advanced courses of study, including professional programs leading to the world of work, and academic master's degrees preparing the student for the Ph.D. as well as advanced professional degrees, such as medicine and law. Nationally recognized and nationally accredited programs are among the Graduate Studies offerings.

Most classes are offered at convenient hours for working students. Financial assistance, research and travel funds are available, with some special financial aid programs aimed at creating a more diverse university faculty.

The Office of the Dean of Graduate Studies encourages graduate education and works to create programs of quality that respond to the needs of students and of the university's service area. Additionally, the office administers the M.A. in Interdisciplinary Studies, the Ronald E. McNair Post-Baccalaureate Achievement Program (see Page 64) and is responsible for the following functions for all graduate programs:

- Waiver petitions for the Graduate Writing Requirement, the seven-year limit for course work, the 12-unit limit for classification, and leaves of absence
- Petitions by all unclassified postbaccalaureate students
- The CSUSB Student Research Conference
- The Graduate Equity Fellowship Program
- The California Pre-Doctoral Program

The university offers the following graduate programs culminating in master's degrees:

- Art, M.A.
- Biology, M.S.
- Business Administration, M.B.A.
- Communication Studies, M.A.
- Computer Science, M.S.
- Counseling and Guidance, M.S.
- Criminal Justice, M.A.
- Education, M.A.
- Educational Administration, M.A.
- English Composition, M.A.
- Environmental Sciences, M.S.
- Health Services Administration, M.S.
- Interdisciplinary Studies, M.A.
- Mathematics, M.A., M.A.T.
- National Security Studies, M.A.
- Nursing, M.S.
- Psychology, M.A., M.S.
- Public Administration, M.P.A.
- Public Health, M.P.H.
- Rehabilitation Counseling, M.A.
- Social Sciences, M.A.
- Social Work, M.S.W.
- Spanish, M.A.
- Theatre Arts, M.A.

The university offers the following graduate program culminating in a doctorate degree:

- Educational Leadership, Ed.D.

Graduate programs at the university are designed to serve a variety of needs. Some students pursue an advanced degree or a credential program in a professional area to enhance their career mobility; others, to expand their knowledge and understanding and to pursue research in a chosen discipline. The university provides for the part-time as well as the full-time student, by offering appropriate course work and research opportunities during the day, late afternoon and evening throughout the calendar year.

The **M.A. in Art** provides for further study in one or more of ten studio areas and investigates issues in contemporary art. The program is offered in the Visual Arts Center, which includes the Robert V. Fullerton Art Museum.

The **M.S. in Biology** provides further study in various biological concentrations. The unique environmental setting of the campus allows for special emphasis on desert and mountain ecological studies.

The College of Business and Public Administration offers two master's degrees. The **Master of Business Administration (M.B.A.)** is internationally accredited by AACSB International, the Association to Advance Collegiate Schools of Business. It provides professionals with advanced skills and competencies necessary to manage and lead business enterprises in a global competitive economy. The **Master of Public Administration (M.P.A.)** is designed to enhance the decision-making and leadership skills of mid- to senior-level administrative and political officials in the government and nonprofit sectors. The M.P.A. is nationally accredited by the National Association of Schools of Public Administration and Affairs (NASPAA).

The **M.A. in Communication Studies** is designed to prepare students for their professional careers in the multicultural business, educational, political and social environment of the 21st century. It also provides them with the opportunity to emphasize areas of career interest such as mass communication, public relations, organizational communication, or other areas of communication study.

The **M.S. in Computer Science** provides students with the professional expertise to enable them to assume high responsibility positions in business, government, and education in the areas of computer and information systems, giving them the capability to undertake research and development using abstract models and theories.

The **M.S. in Counseling and Guidance** is a professional program preparing students to become educational counselors. The degree program is designed to fulfill all the California State requirements for school counseling in grades K-12, so that a graduate will concurrently receive the M.S. and the California Pupil Personnel Services Credential.

The **M.A. in Criminal Justice** is designed to serve individuals in the criminal justice system who desire postbaccalaureate education, as well as those in more traditional public and private employment who may wish to acquire further education in criminal justice. The degree program offers two options. One is a thesis option designed for students who intend to pursue graduate studies beyond the M.A. level and those students who have special research interests in the criminal justice system. The examination option is designed for students with administrative and management goals.

The **M.A. in Education** offers options in bilingual/crosscultural education; career and technical education; correctional and alternative education; curriculum and instruction; environmental education; health education; holistic and integrative education; instructional technology; kinesiology; reading/language arts; science education, special education; and teaching English to speakers of other languages. The College of Education also offers credential programs designed to prepare students to teach in a variety of settings. In addition to the multiple, single and designated subjects credentials, specialist and services credential programs also are available.

The **Educational Administration M.A.** program prepares individuals to assume leadership roles in school administration, school business management, curriculum development, and supervision of personnel and instruction.

The English Department offers an **M.A. in English Composition**. There are three concentrations available. The English Composition Program is designed for individuals interested in pursuing studies in the teaching of composition and will also benefit those who need expertise as writers of grants, interpreters of public policy, editors and others interested especially in nonfiction prose. The option in English Literature allows students an option to focus on advanced studies in literature as well as composition. The option in Teaching English as a Second Language prepares students for teaching in high school and college ESL programs.

The **Master of Science in Environmental Sciences** is a multidisciplinary program designed to provide strong preparation in applied science as well as decision-making for environmental issues, with an emphasis on water and air quality.

The **M.S. in Health Services Administration** is designed to meet the need for professionals trained in the management and planning of health care services. The program has three major objectives: 1) to enable students to integrate health science, health services, management and planning skills; 2) to develop the ability to conduct independent research; and 3) to provide the intellectual stimulation and scholarly atmosphere aimed at developing leaders in the field.

An **M.A. in Interdisciplinary Studies** allows a student with unusual educational or vocational objectives to draw from several departments to meet a specific need. Information on these programs are available from the Dean of Graduate Studies.

The **Master of Arts in Mathematics** is designed for well-prepared teachers at the K-12 level. All core courses are offered in the late afternoon and evening, elective courses are also offered during the day.

The **M.A. in National Security Studies** is a professionally oriented academic program designed for those who desire to understand the principles and practices of national and international security in contemporary international affairs.

The **M.S. in Nursing** is designed to educate practicing nurses for leadership and service in culturally diverse, pluralistic communities. The clinical focus is on advanced community-based nursing practice. Graduates will be prepared for advanced certification in community health nursing or home health nursing. Students select a functional role concentration of nurse educator or clinical case manager.

The Department of Psychology offers an **M.S. in Psychology** with concentrations in clinical/counseling and industrial/organizational, in addition to an **M.A. in Psychology** with two areas of specialization: general-experimental and child development.

The **Master of Public Health (M.P.H.)** prepares students to enter careers in public health program planning and evaluation, research, health policy analysis, public health teaching, and leadership, and to meet the challenges that the future public health work force will face.

The nationally accredited **M.A. in Rehabilitation Counseling** is a two-year professional program preparing students to be certified rehabilitation counselors who will work with a wide variety of disabled persons in different settings preparing them for job placement.

The **M.A. in Social Sciences** is designed primarily for secondary school teachers who wish to expand or update their knowledge of the social sciences. The program emphasizes the fields of greatest importance to secondary school teaching, but electives allow the student to sample the breadth of the social sciences.

The nationally accredited **Master of Social Work (M.S.W.)** prepares professional social work practitioners who are committed to understanding and serving those most in need of help.

The **M.A. in Spanish** is designed for those students seeking to enhance their skills at the secondary or community college level, as

well as those students who desire to continue their studies for an advanced degree. Students may enroll in one of two available options, Spanish Language Teaching, and Hispanic Literature, Linguistics and Civilization.

The **Master of Arts in Theatre Arts** is designed for students who wish to apply advanced theories, methodologies, and technologies of theater in their careers as theater artists and educators and for those who wish to advance from this degree to further graduate work. The program is unique in its flexibility, wide range of theatre education opportunities and specialized faculty.

The **Doctor of Education (Ed.D.) in Educational Leadership** is a rigorous doctoral program directed specifically towards current and emerging leaders in PreK – 12 and community college to provide expertise in these specific areas and emphasize the need for theory and practice, ethical leadership, personal balance, the utilization of technology and mentoring components. Its mission is to add the expert leadership base in the public schools and community colleges by preparing reflective practitioners through rigorous study and application.

Detailed requirements of each program are listed by department in the graduate studies section of the catalog.

Latest details on the status of new programs may be obtained from the appropriate school or department or from the Office of the Dean of Graduate Studies.

## General Requirements for Admission

The minimum requirements for admission of postbaccalaureate and graduate students to a California State University campus are in accordance with university regulations as well as Title 5, Chapter 1, Subchapter 3 of the California Code of Regulations. Specifically, a student shall at the time of enrollment: 1) have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association or have completed equivalent academic preparation as determined by appropriate campus authorities, 2) be in good academic standing at the last college or university attended, 3) have attained a grade-point average of at least 2.5 in the last 90 quarter (60 semester units) units attempted, and 4) satisfactorily meet the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as appropriate campus authorities may prescribe.

Applicants who do not qualify for admission under the provisions cited above may be admitted by special action if, on the basis of acceptable evidence, they are judged to possess sufficient academic, professional and other potential to merit such action. Petitions for admission by special action should be directed to the graduate coordinator of the appropriate master's program or if there is no specific graduate degree in mind, to the Dean of Graduate Studies.

## Categories of Admission

Graduate and postbaccalaureate applicants may apply for a degree, a credential or certificate, or may not have a program objective. Depending on their objective, an applicant who meets the minimum requirements for graduate study and postbaccalaureate students, will be accepted in one of the following categories:

**General Requirements** – The minimum requirements for admission to graduate and post baccalaureate studies at a California State University campus are in accordance with university regulations as well as Title 5, Chapter 1, Subchapter 3 of the California Code of Regulations. Specifically, a student shall at the time of enrollment: (1) have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association, or shall have completed equivalent academic preparation as determined by appropriate campus authorities; (2) be in good academic standing at the last college or university attended; (3) have attained a grade point average of at least 2.5 (A=4.0) in the last 60 semester (90 quarter) units attempted; and (4)

satisfactorily meet the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as appropriate campus authorities may prescribe. In unusual circumstances, a campus may make exceptions to these criteria.

Students who meet the minimum requirements for graduate and post-baccalaureate studies may be considered for admission in one of the four following categories:

- **Post-Baccalaureate Unclassified.** To enroll in graduate courses for professional or personal growth, applicants must be admitted as post-baccalaureate unclassified students. By meeting the general requirements, applicants are eligible for admission as post-baccalaureate unclassified students. Some departments may restrict enrollment of unclassified students because of heavy enrollment pressure. Admission in this status does not constitute admission to, or assurance of consideration for admission to, any graduate degree or credential program; or
- **Post-Baccalaureate Classified,** e.g. admission to an education credential program. Persons wishing to enroll in a credential or certificate program, will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus; or
- **Graduate Conditionally Classified.** Applicants may be admitted to a graduate degree program in this category if, in the opinion of appropriate campus authority, deficiencies may be remedied by additional preparation; or
- **Graduate Classified.** To pursue a graduate degree, applicants are required to fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus.

**Continuous Enrollment.** To retain classified standing in a master's program after all course work is completed, a student must remain in continuous enrollment in a Continuous Enrollment (698) course in their discipline until a project, thesis or comprehensive examination is completed. See Culminating Experience: Exam, Thesis or Project, Page 352 for further explanation.

These and other CSU admissions requirements are subject to change as policies are revised and laws are amended. The CSU website [www.calstate.edu](http://www.calstate.edu) and the CSU admissions portal [www.csumentor.edu](http://www.csumentor.edu) are good sources of the most up-to-date information.

### Admission of Graduates with Three-Year Baccalaureate Degrees from Foreign Universities

Applicants who have completed baccalaureate degrees at foreign universities which require at least 15 years but less than the equivalent of 16 years of formal education must complete a minimum of 45 quarter units of additional work upon admission to California State University, San Bernardino as an undergraduate student. Students must receive prior approval from the International Admissions Office. These units must be completed at CSUSB. Thirty of the 45 units must come from specified General Education courses in the Colleges of Arts and Letters, Social and Behavioral Sciences and Natural Sciences. The remaining 15 units needed to reach the total of 45 units may be either from additional General Education courses or prerequisites to a graduate program as approved by the student's graduate program coordinator/advisor. Courses numbered 500-600 may not apply towards the 45 units, nor be taken without prior approval from the Dean of Graduate Studies.

Once the 45 units have been successfully completed, the student must notify the Records, Registration & Evaluations office. Once the Bachelor Degree equivalent has been validated, the student will be eligible to reapply to the university as a graduate student. Note a GPA of 2.50 in the last 90 quarter units is required.

This does not apply for students seeking a credential.

### Graduate and Post-Baccalaureate TOEFL Requirement

All graduate and postbaccalaureate applicants, regardless of citizenship, whose native language is not English and whose preparatory education was principally in a language other than English must demonstrate competence in English. Those who do not possess a bachelor's degree from a postsecondary institution in a country where English is the principal language of instruction must receive a minimum score of 550 on the Test of English as a Foreign Language (TOEFL). Some programs may require a higher score. Applicants taking the Computer Based Test of English as a Foreign Language must present a score of 213 or above. Some programs may require higher scores.

### Admissions Procedures

1. All graduate and post-baccalaureate applicants (e.g., joint PhD and Ed.D. applicants, master's degree applicants, those seeking educational credentials, and holders of baccalaureate degrees interested in taking courses for personal or professional growth) must file a complete graduate application as described in the graduate and post-baccalaureate admission materials at [www.csumentor.edu](http://www.csumentor.edu). Applicants seeking a second bachelor's degree should submit the undergraduate application for admission unless specifically requested to do otherwise. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to complete and submit an application and the \$55 nonrefundable application fee. Since applicants for post-baccalaureate programs may be limited to the choice of a single campus on each application, re-routing to alternate campuses or later changes of campus choice are not guaranteed. To be assured of initial consideration by more than one campus, it is necessary to submit separate applications (including fees) to each. Applications submitted by way of [www.csumentor.edu](http://www.csumentor.edu) are preferable. An electronic version of the CSU graduate application is available at <http://www.csumentor.edu>. Application forms may also be obtained from the Graduate Studies Office or the Admissions Office of any California State University campus.
2. Former graduate students of the university must apply for readmission if: a) they have been absent for more than one quarter including summer term immediately preceding the quarter for which readmission is sought, or b) they have attended other colleges during their absences from California State University, San Bernardino. Students who have attended other colleges during their absences must submit official transcripts from those institutions. Students who have been absent for one quarter must again pay the \$55 application fee.

To be assured of initial consideration by more than one campus, it will be necessary to submit separate applications (including fees) to each. Applications may be obtained from the Graduate Studies Office or the Office of Admissions at any California State University campus. An electronic version of the CSU graduate application is available at <http://www.csumentor.edu>. Applications filed electronically are preferable.

Requests for information regarding admission and all completed application materials should be directed to the Office of Admissions and Student Recruitment, Attention: Graduate Admissions. Applications are accessible at <http://www.csumentor.edu>.

The university begins accepting applications from new and readmitted students on November 1 for the following fall quarter, June 1 for the following winter quarter, August 1 for the following spring quarter and February 1 for the following summer quarter. Applicants for postbaccalaureate programs are limited to the choice of a single campus on each application. If postbaccalaureate applicants wish to be considered by more than one campus, they must submit separate applications and fees to each.



## Requirements for a Master's Degree Program

The following standards apply to all master's degree approved graduate programs:

1. The program must include at least 45 quarter units of upper-division and graduate course work (i.e., courses numbered 300-699) taken while in postbaccalaureate standing. At least 70% of this work must be in courses organized primarily for graduate students (courses numbered 500-699).
2. The program must include 70% or more quarter units of course work taken in residence on this campus. Previous work taken in summer session on this campus may be counted as residence credit. Credit by examination and credit for extension work are not considered as residence study.
3. Except for students with coursework from accredited graduate social work programs, the program may not include more than 30% total program units in extension and transfer credit from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.
4. The program must follow the department curriculum in effect at the time the student is officially admitted (classified) in the major program or at the time the program is filed with the program graduate coordinator. Recommendations for any substitutions to the program must be approved in writing by the advisor and attached to the program.
5. All courses taken to satisfy the requirements for the degree must be completed with a minimum grade point average of 3.0 ("B") or better, except that a course in which no letter grade is assigned shall not be used in computing the grade point average.
6. The program must include only courses with grades of "C" (2.0) or better. (Grades of "C-" (1.7) or less cannot be used.)
7. The program may not include more than 12 quarter units of work taken in unclassified status or before classified status was attained.
8. The program must be completed within a seven-year period. No more than seven years may elapse between the time of registration for the earliest course listed on the program and the completion of all requirements for the degree.
9. Courses numbered 100 to 299 and in the 1000 to 9999 series cannot be applied toward a master's degree. Courses taken to satisfy quantitative or qualitative deficiencies cannot be applied toward a master's degree.
10. A course taken at another college with a grade such as CR, S, or P cannot be accepted on a master's degree study plan unless such a course with such a grade is accepted by that college or university toward a graduate degree.
11. **Graduate Entrance Writing Requirement.** Graduate students will be required to pass (or to have passed) the upper-division writing requirement before being fully classified into a graduate program, unless an earlier completion is specified for a particular program. This requirement can be satisfied through one of the following:
  1. Completion, with a grade of "B" (3.0) or better, within seven years prior to acceptance into the program of one of the following courses: EDUC 306, ENG 306, HON 306, HUM 306, MGMT 306, NSCI 306, or SSCI 306 (all graduate and postbaccalaureate students, regardless of citizenship, whose preparatory education was principally in a language other than English and have a minimum score of 550 on the TOEFL, or a minimum score of 213 on the Computer Based TOEFL, who fail to achieve a grade of "B" (3.0) or higher in one of the 306 courses will be required to retake any 306 class.) (Note: these 306 courses were previously numbered 495.)

2. Completion, with a grade of "B" (3.0) or better, of an equivalent advanced expository writing course at another college or university within seven years prior to acceptance into the program. The course must be approved by the Graduate Studies Office.
3. Satisfactory completion of the Writing Requirement Exemption Examination (WREE) offered at this university, taken within seven years prior to acceptance into the program.

Further information about the WREE examination (for example, how much it costs, when it is offered, what it covers) is available from the Testing Center, Jack Brown Hall, Room 405, (909) 537-5041. Contact the Office of the Dean of Graduate Studies 537-5058 for questions about the graduate writing requirement as it relates to postbaccalaureate students.

12. **Graduation Writing Requirement.** Once students are classified in a graduate program, they must meet the writing requirement for that master's degree. Each program has identified what the student must do to satisfy this requirement.

## Advancement to Candidacy

Students pursuing an advanced degree through the university should, before completing 20 quarter units toward the degree (36 quarter units for programs over 70 units), prepare and file an official document titled "an approved graduate program" with the department from which they plan to receive the degree. This program lists the specific requirements to be completed before the degree can be awarded. It must be approved by the student's major advisor and the graduate coordinator of the student's program. Once the program is accepted and approved, the student is officially advanced to degree candidacy.

## Standards for Graduate Study

In general, graduate study deals with more complex ideas and demands more sophisticated techniques, searching analysis and creative thinking than undergraduate study. Extensive research is required in both primary and secondary sources, and high quality writing is expected. The student is advised to consider these factors when deciding the amount of course work to be undertaken during any one quarter. Post-baccalaureate students will be held to all prerequisites for all courses.

All students are required to maintain a 3.0 ("B") grade-point average in all courses taken to satisfy the requirements for the degree, except that a course in which no letter grade is assigned shall not be used in computing the grade point average.

In addition, basic teaching credentials, single or multiple subject, accept no grade lower than a "B-" in all work attempted with the exception of the designated subjects credential which requires a 2.5 grade point average in all work.

**Academic Probation.** Failure to maintain the appropriate grade point average will result in the student's being placed on probation. Students on probation must rectify their grade point deficiencies by the end of the quarter of notification of probationary status, or they automatically will be disqualified and placed in unclassified postbaccalaureate status. To apply for reinstatement to a graduate degree or credential program after disqualification, the student must petition the appropriate program graduate committee.

A student who has been disqualified from a master's degree program may be admitted to another program only on the recommendation of the department to which the student has applied and with the approval of the Dean of Graduate Studies.

Students in unclassified postbaccalaureate standing and students seeking a second bachelor's degree must maintain a 2.5 grade point average in all work attempted. Students in this category who are dismissed from the university for failure to maintain these standards must petition the Dean of Graduate Studies for readmission to the university.



## Readmission of Previously Disqualified Students

After receiving notice of disqualification, a student may petition the graduate coordinator for readmission to the university on probation. All petitions for readmission must be submitted to the graduate coordinator according to the following schedule:

Petition for:	Petition on file on or before:
Fall	August 1
Winter	November 1
Spring	February 1
Summer	May 1

## Admission by Special Action and Probationary Status

An applicant who does not meet university requirements for admission may be admitted by special action by the graduate coordinator of the program the student wishes to enter, or if unsure, by the Dean of Graduate Studies. Such admission may be in a probationary status, if in the opinion of the graduate coordinator, the student is likely to succeed in the program.

Ordinarily, consideration for probationary status is granted only to mature applicants who, while their total college record does not meet the admission requirements, have demonstrated sufficient ability through recent academic work or other means.

Students admitted on probationary status are subject to the probation and disqualification regulations as stated on Page 51. A student admitted on probationary status may be restricted by the graduate coordinator to a limited program.

## Administrative Academic Disqualification

A graduate student may also be placed on probation or may be disqualified by appropriate campus authorities for unsatisfactory scholastic progress regardless of cumulative grade point average or progress in the program. Such action shall be limited to those arising from repeated withdrawal, failure to progress toward an educational objective and noncompliance with an academic requirement and shall be consistent with guidelines issued by the chancellor.

## Retroactive Withdrawal

Requests for withdrawal from a course(s) following the close of the term (retroactive withdrawal) will be considered only for: accident or illness (physical or mental), serious personal or family problems, or military transfer. Documentation is required. In addition, extenuating circumstances must be shown to have prevented withdrawal in a more timely fashion. Partial withdrawal of grades during a term is not permissible for any reason. All courses must be withdrawn and will be noted with a "W" on the official transcript. Lack of awareness of the withdrawal procedures is not an extenuating circumstance.

Employment-related reasons are not acceptable.

Requests by graduate students, unclassified postbaccalaureate and credential candidates and must be made in writing to the Dean of Graduate Studies, AD-127.

## Full Time Academic Load

Full time academic status for a postbaccalaureate or graduate student is eight units of 500- or 600-level courses or 12 weighted units, following the unit loads used for veteran certification (see table on Page 355).

**Course Overloads:** To enroll in more than 16 units in any one quarter, a student must have approval of the graduate coordinator of his/her graduate program. Course Overload Permit Cards are available at the Records, Registration and Evaluations Information Center, UH-171 and from the department office. Additional units may be added at the beginning of the first day of classes, if classes remain open and the overload is approved. Students who must work to support themselves, who have time-consuming family responsibilities,

who commute long distances, or who are in other difficult circumstances should, in conjunction with their advisors, weigh these factors and alter their course loads accordingly. Financial aid recipients should consult the Financial Aid Office for their definition of eligibility.

## Late Registration

The dates of late registration each term will be announced in the *Class Schedule*. The university calendar, Page 4, lists registration dates. Late registrants may find themselves handicapped in arranging their programs due to closed classes. A \$25 late registration fee is required.

## Adding Classes

During the Open Enrollment and Schedule Adjustment period (see *Class Schedule* for specific dates) students may add classes by following the Registration Instructions detailed in the *Class Schedule*. It is important to note that students who add a class or classes after the first scheduled class session may find themselves at a distinct disadvantage in terms of doing well in the class(es). Students should also be aware that they are responsible for any material they may have missed as a result of adding after the first day.

## Grade/Grievance/Complaint Procedures

<http://studentaffairs.csusb.edu/policies.html>

Information concerning academic or nonacademic matters may be obtained from the Office of Advising and Academic Services. Generally, a grade grievance must be initiated by the student within no more than 40 calendar days after the grade is recorded. The complete policy statement is available from the Associate Dean of Undergraduate Studies, AD-183.

Information concerning non-academic grievances and discrimination complaints against the university and its employees by a student may be obtained from the Office of the Vice President for Student Affairs, UH-231, the Women's Resource Center, the Adult Re-Entry Center, the Cross-Cultural Center, Vice Presidents' offices, and College Deans' offices. A grievance or complaint must be filed within no more than 40 calendar days after the student learned or reasonably should have learned of the occurrence of the grievance/complaint event.

## Election of Graduation Requirements

A student remaining in continuous attendance in regular sessions and continuing in the same graduate curriculum in the university may, for the purposes of meeting graduation requirements, elect to meet 1) those requirements in effect at the time the student is admitted into a formal graduate program and enters the curriculum, or 2) those requirements in effect at the time of graduation from the university. Substitutions of or for discontinued courses may be authorized or required by the department or college graduate committee and by the Dean of Graduate Studies.

## Changing Master's Degree Programs and Concentrations

Each master's program and/or concentration may have its own professional, personal, scholastic, and other standards for graduate study, including qualifying examinations. All admitted graduate students must submit a Graduate Change of Program form in order to change master's programs and concentrations/options/tracks within a program. Requests to obtain this form should be directed to the Office of Admissions and Students Recruitment, Attention: Graduate Admissions.

## Two Master's Degrees

Students who wish to secure two different master's degrees may do so. At the discretion of the program, credits from one master's degree may be applicable to a second master's degree up to the maximum number of transfer units allowed within each program. In

no case shall a student be awarded a given master's degree more than once.

## **Culminating Experience: Examination, Thesis, or Project**

**Comprehensive Examinations.** Each program that offers the comprehensive examination for the master's degree shall implement and maintain in writing explicit guidelines that address both content and procedures relating to the examination. All comprehensive examinations must conform to the following requirement of Title 5, i.e., "A comprehensive examination is an assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking, and demonstrate mastery of the subject matter. The results of the examination provide evidence of independent thinking, appropriate organization, critical analysis, and accuracy of documentation. A record of the examination questions and responses shall be maintained in accordance with the records retention policy of the California State University."

Students must fulfill all department/division requirements for the written and/or oral comprehensive examinations. Such requirements include, but are not limited to, the date and time for the comprehensive examinations, length of testing, topics covered, and number of questions for the comprehensive examinations.

Students whose program requires a comprehensive examination must declare to their major department/division, at least one quarter in advance, their intent to take it, obtain department/division permission, and register for the appropriate comprehensive examination course in their major discipline. Students must consult with their program advisor regarding specific requirements for the comprehensive examination. Those who do not pass the comprehensive examination must fulfill any department, division, and/or college requirements for subsequent enrollments in these examinations.

**Continuous Enrollment (Comprehensive Exam).** Students who have completed all course work and are preparing for the comprehensive examination, must remain in continuous enrollment until their degree is granted. To maintain continuous enrollment, students must register each quarter for the 698 course (Continuous Enrollment for Graduate Candidacy Standing) in their major discipline.

**Thesis and Project Requirement.** Students who choose to write a thesis or project as their master's degree culminating experience should consult "A Guide to Graduate Studies: Policies, Procedures and Thesis and Project Format," copies of which are available in the university library for reference or for purchase from the Graduate Studies Office and Coyote Bookstore. It is also available on the web at <http://gradstudies.csusb.edu>. It provides information about the following: procedures, regulations, and responsibilities governing the master's thesis or project; general requirements for thesis/project preparation and acceptance; and format requirements for the thesis/project. In addition, students must obtain specific department/division requirements from their advisor.

**Continuous Enrollment (Thesis and Project).** Students who have completed all course work and are working on the thesis/project must register for the thesis or project course required in their major discipline for the master's degree. **IMPORTANT NOTE:** Students register **ONLY ONE TIME** for the thesis/project course. If the thesis/project is not completed in the quarter in which the student first registered for the thesis/project course, then the student will receive a grade of RP (Report in Progress) for the course for that quarter. The RP grade in the course remains until the thesis/project is completed and approved by the student's thesis/project advisor and the Dean of Graduate Studies, at which time the student's professor will submit a "Change of Grade" form, replacing the RP grade with a letter grade.

In addition, students who have completed all course work and are enrolled in a thesis/project course must also register every quarter for the 698 course (Continuous Enrollment for Graduate Candidacy Standing) in their major discipline until their degree is granted. No degree credit is awarded for 698 courses.

Once officially accepted and processed, master's theses and projects are made available to the public through the Library.

## **Graduation Requirement Check**

Candidates for degrees to be awarded must request a graduation requirement check at the Office of Records, Registration and Evaluations at least one quarter prior to the end of the term of their expected graduation. To avoid late fees the Graduation check should be filed by the established deadlines listed on Page 4 and in the *Schedule of Classes*. Advancement to Candidacy is needed before the graduation check can be completed.

Students not completing their degree in the term applied for will need to refile and pay for the later term. Access to registration for terms subsequent to the stated graduation will not be granted until the graduation check is refiled.

## **Commencement**

Academic Affairs/Academic Resources Commencement Office  
537-7050.

Participation in commencement activities is voluntary. CSUSB has two commencement exercises, one in December and one in June.

### **December 2008**

Summer 2008, prospective December 2008 and March 2009 candidates are eligible to participate in the December 2008 commencement exercises. In order to obtain commencement information to all eligible students, the deadline to file a graduation check and be included in the commencement program is the last working day in October.

### **June 2009**

December 2008, March 2009 and prospective June and September 2009 candidates are eligible to participate in the June 2009 commencement exercises. In order to obtain commencement information to all eligible students, the deadline to file a graduation check and be included in the commencement program is the last working day in April.

Students who do not file graduation checks within the specified time period may still participate in commencement but will not have their names included in the commencement program. Appropriate information will be sent to students. Graduates and candidates wishing to participate in the commencement ceremony will be required to pay a commencement fee of \$35.

### **Palm Desert Campus**

The Palm Desert Campus holds one commencement exercise in June. In order to obtain commencement information to all eligible students, the deadline to file a graduation check and be included in the commencement program is the last working day in April. The commencement fee can be paid online or at the Palm Desert Office. Questions regarding this exercise should be directed to the Palm Desert Campus Administrative Office (760) 341-2883. Palm Desert Campus graduates have the option of also participating in the main campus exercises.

### **Master's Students**

In order to participate in commencement, students completing a master's degree must file a grad check **AND** meet the eligibility requirements specified by their program. For the specific requirements, students should consult their program coordinator or go to <http://gradstudies.csusb.edu>.

### **Credential Students**

Students completing a Multiple Subject, Single Subject, or Education Specialist Basic credential during September 2008 through August 2009 are eligible to participate in a Credential Recognition Ceremony rather than commencement. Only one Credential Recognition Ceremony will be held in June 2009. Specific information can be obtained in the College of Education Office, CE-102.

## Change in Approved Graduate Program

If during graduate study a master's candidate wishes to change the approved program by adding or removing a course, this may be done under certain circumstances. A request for such a change must be initiated by the student and approved by the graduate coordinator.

## Credit by Evaluation (Examination)

A graduate program, while building upon course work previously completed, should be used to acquire new knowledge and skills. Acquisition of units through credit by evaluation, on the other hand, relies inherently on old knowledge and skills. Therefore, prerequisite courses and other requirements outside of the formal program may be challenged, but units gained through credit by evaluation cannot be included within the formal program of study.

In cases where a graduate student may possess the necessary knowledge and skill and wishes to challenge a course within the formal program of study, a petition must be submitted sequentially to the instructor of the specific course, the department or school graduate committee, and the Dean of Graduate Studies. Contingent to approval of the petition by the Dean of Graduate Studies is the condition that an additional course be added to the formal program as elective credit to replace each course that is successfully challenged through credit by evaluation.

Students may not enroll in a course they plan to challenge but must register for credit by examination in the office of the college or department concerned before the first day of classes of the term in which the course is offered. Some presumptive evidence is required to indicate that the student has a reasonable chance of passing the examination. The student must complete the examination within the first two weeks of the term. Those students who are unsuccessful in challenging may add the course subject to the regulations for adding a class printed in the quarterly *Class Schedule*. A student who passes an examination is given the grade of CR for that course. No official record is made of failures in these examinations. A fee may be charged for these examinations, and they are available only to currently enrolled students.

## Phi Kappa Phi

Academic Affairs Office, AD-101  
(909) 537-5024 [pkp.csusb.edu](mailto:pkp.csusb.edu)

The university has an active chapter of the national honor society of Phi Kappa Phi, whose purpose is the recognition and encouragement of superior scholarship in all academic disciplines. Membership is by invitation issued to selected juniors, seniors and graduate students who have excelled in scholarship and who meet the chapter's requirements. Graduating seniors who are members of Phi Kappa Phi have an opportunity to apply for a Fellowship from the national office to be used towards the first year of graduate study.

## Graduate Council

The coordinators of each graduate program, the Dean of Graduate Studies, the President of the Faculty Senate and the President of the Council of Graduate Students make up the Graduate Council. This group discusses all issues of policy and practice related to graduate study at the university.

## A Guide to Graduate Studies: Policies, Procedures and Thesis Project Format

A book is published each year by the Office of the Dean of Graduate Studies with information relevant for graduate students.

## Council of Graduate Students

The Council of Graduate Students is made up of at least one student representative from each graduate program. The Council serves as the voice of graduate students on campus and sponsors a number of activities and events supporting graduate education throughout the academic year.

## Concurrent Enrollment

A graduate student enrolled at the university may enroll concurrently for additional courses at another institution only with advance written approval from the graduate advisor and the Dean of Graduate Studies. Ordinarily, permission will not be granted when the study load in the proposed combined program exceeds 16 quarter units.

## Financial Aid Eligibility in Unclassified Post-Baccalaureate Status

Unclassified postbaccalaureate students, since they are not in a degree program, are not eligible for financial aid. Students taking prerequisite courses under the direction of a graduate program in preparation for entrance at the master's level, are eligible for one year of loans (at the freshman rate).

## Post-Baccalaureate Credit for Senior Students

Senior students who need fewer than 16 quarter units to graduate may be permitted to enroll for postbaccalaureate credit during the final quarter of their senior year. Post-baccalaureate credit is used to signify courses taken after the baccalaureate degree, but does not necessarily mean graduate credit, i.e., credit applicable toward an advanced degree. Only 300- to 600-level courses will be considered. A petition for this purpose is available in the Office of Records, Registration and Evaluations. Note: Some 500- and 600-level courses require prerequisites and are open only to students classified in a master's program.

## Repeat of Course (Discount of Grade)

Classified and conditionally classified graduate students may be permitted to repeat one course at CSUSB that was taken for graduate credit (i.e. that is applied towards a master's degree) one time only by petition to and approval of the college or department graduate committee. The petition requesting this permission includes an automatic request to discount the first attempt. When approved, the original course grade on the student's permanent record will be discounted. Only the second grade earned shall apply to the student's cumulative postbaccalaureate grade point average. The first attempt will show on the transcript with the repeat (discount) noted. Subsequent repeats of course will be averaged.

Classified and conditionally classified graduate students may be permitted to repeat a course taken as an undergraduate once with approval of the advisor and only to remove a deficiency. A subsequent repeat must be approved by the college or department graduate committee. In no case shall such credit be counted toward the units required for a master's degree. The second grade earned shall apply toward the student's cumulative postbaccalaureate grade point average and shall not replace the grade in the undergraduate record. Subsequent repeats of course will be averaged.

Classified postbaccalaureate students (for example, students officially admitted to teaching credential programs) may be permitted to repeat a course taken as an undergraduate only by petition to and approval of the appropriate college or department committee and the grade earned shall not replace the grade in the undergraduate record. Courses taken for postbaccalaureate credit may be repeated at CSUSB only by petition to and approval of the appropriate college or department committee. In both cases the second grade earned shall apply to the student's cumulative postbaccalaureate grade point average. Subsequent repeats of course will be averaged.

Unclassified postbaccalaureate students may be permitted to repeat a course taken as an undergraduate. However, the grade earned shall not replace the grade in the undergraduate record. Unclassified postbaccalaureate students who are taking courses that are not part of a graduate degree program and who are not pursuing any degree objectives are subject to the same repeat of courses regulations as undergraduates. Courses taken for postbaccalaureate credit by an undergraduate as defined under "Post-Baccalaureate Credit for Seniors," may be repeated at



CSUSB only by petition to and approval of the Dean of Graduate Studies. In both cases, the second grade earned shall apply to the student's postbaccalaureate grade point average. Subsequent repeats of course will be averaged.

## Leave of Absence

Degree and credential seeking students who plan to be absent from the university must file a leave of absence to preserve their current catalog rights (Title 5, Article 5, See. 40401). A petition, available through the Office of the Dean of Graduate Studies, AD-127, (909) 537-5058, must be filed and approved.

The leave of absence policy covers both involuntary and voluntary interruptions. In most instances, with an approved leave of absence, a student may be absent from the campus without losing their rights to specific degree requirements under an earlier catalog.

Petitions for leaves of absence should be filed in advance of the interruption in enrollment. Each leave commences with the first regular quarter of non-attendance. Medical and military leaves may be considered retroactively if supported by individual circumstances, but those leaves must be filed no later than census date of the first regular quarter of non-attendance. Personal and planned educational leaves cannot be retroactive since they constitute an agreement or "contract" which must be set in advance. The maximum duration for any leave is two calendar years.

Leaves of absence will not be approved for students subject to disqualification or dismissal due to academic deficiencies or disciplinary action.

Other students ineligible for leaves of absence are those who are not completing any degree applicable course work, those who are enrolling only in extension courses or those who are only auditing courses.

Students who do not return to CSU, San Bernardino at the conclusion of their planned leaves and those who enroll elsewhere without permission of the Office of Records, Registration and Evaluations will be considered to have withdrawn from the university at the end of their last quarter of regular enrollment.

International students must submit a copy of the leave of absence petition to the Office of International Student Services, UH-235. Visa students must be registered as full-time students except, when after one quarter of regular enrollment they decide to take a quarter off. All leave of absence periods must be approved by ISS prior to taking the leave in order to report the students properly to the Bureau of Citizenship and Immigration Services (BCIS). As a general rule, visa students must go back to their home country when applying for a leave of absence, as their primary goal in the U.S. is to obtain an academic degree.

The following Leaves of Absence may be requested:

**Medical Leave of Absence.** Requests must be accompanied by a statement from a medical doctor explaining why the student must interrupt enrollment. Exceptions to the two-year limit may be granted under extenuating circumstances.

**Military Leave of Absence.** For those being inducted, requests must be accompanied by a copy of military orders indicating the induction date. For students being called to active military service, Title 5, Section 40401, provides for an extended leave of absence up to a maximum of two years due to approved educational reasons and for circumstances beyond a student's control. The university will approve a leave for students called for active military service as a result of mobilization of U.S. military reserves. Students will retain their catalog rights and register for subsequent quarters. In the case of students called for active military service, the university will authorize withdrawals throughout the quarter. For additional information, assistance with dropping current classes and other processing, see the veteran's coordinator in the Office of Records, Registration and Evaluation, UH-171, (909) 537-5213.

**Personal and Planned Educational Leaves of Absence.** Is defined as a planned interruption or pause in a student's regular education during which the student temporarily ceases formal studies at CSU, San Bernardino. The student must plan to return to CSU, San Bernardino at the end of the leave. Such activities may be for the purpose of clarifying or enriching educational goals or to allow time to address personal matters and thus enhance the prospect of successful completion of the student's academic program.

Since students usually maintain their catalog rights, courses completed at other institutions must have received prior approval in order to be transferred back to CSU, San Bernardino. Therefore, a student must also file a concurrent enrollment form with the Office of the Dean of Graduate Studies to obtain that approval. Failure to file a concurrent enrollment form may result in coursework not being accepted and revised major requirements being required.

**Returning from Approved Leave of Absence.** When students plan to return from their leave, a readmission form, available through the Office of Records, Registration and Evaluations, UH-171, (909) 537-5200, must be submitted within the filing period for the quarter of return. No application fee will be assessed for leaves of absence that meet the terms of the leave agreement.

## Transcripts

Applicants for unclassified postbaccalaureate standing must furnish official transcripts from each college or university attended. A separate transcript from each college or university is required even though one transcript may show work taken at another institution.

Applicants for classified postbaccalaureate standing (teaching credentials), or conditionally classified and classified graduate standing must furnish two official transcripts from each institution attended.

## Admission from Nonaccredited Schools

Graduates of nonaccredited schools who give evidence of unusual promise and superior background may petition the Dean of Graduate Studies for admission as unclassified postbaccalaureate students. Such students who wish to enter a specific graduate program must then petition the appropriate school or department for admission to conditionally classified graduate status. Requirements for admission to conditionally classified status shall be determined by the concerned department and approved by the Dean of Graduate Studies.

## Limitations of Enrollment

Entrance of postbaccalaureate students to any program may be subject to limitations (i.e., each master's degree or credential program may restrict enrollment whenever limitations of facilities and/or staff warrant).



## Veterans Information and Enrollment Certification

California State University, San Bernardino, is approved for the training of veterans of the military services and their dependents under educational assistance programs, established by the state and federal governments. Applications for educational benefits may be obtained directly from the veterans certification clerk. Student enrollment certification is based on the following unit loads:

Full time . . . . . 12 weighted units  
determined as follows:  
500- and 600-level course weighted at 1.5 units  
300- and 400-level course weighted at 1.0 units  
100-200 no certification unless course is stated  
condition for admission to a graduate program  
3/4 time . . . . . 9.0 to 11.5 weighted  
units as determined above  
1/2 time . . . . . 6.0 to 8.5 weighted  
units as determined above

The university will certify course loads to the Veterans Administration based on the criteria above for units which are degree or objective applicable. Veterans enrolled less than half time are eligible for reimbursement of tuition and fees only.

Independent study and self-paced courses will be certified for monthly educational benefits as regular residence courses.

**Full-Time Equivalency.** This weighted-unit chart is used to calculate full-time status for graduate students.

# ANTHROPOLOGY

## Department of Anthropology

Social and Behavioral Sciences Building, Room 327J  
(909) 537-5502 <http://anthropology.csusb.edu/>

The following courses are offered in support of various graduate degrees offered at this university.

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### COURSE OFFERINGS IN ANTHROPOLOGY (ANTH)

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#### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

#### 666. Cultural Resource Management

Study of cultural resources in the context of planning. Focus will be on data sources, environmental review and historic evaluation.  
(2 units)

#### 695. Independent Graduate Study

Graduate-level independent study in anthropology for students in the program for the Master of Arts in Interdisciplinary Studies or in other graduate programs. A total of eight units may apply toward graduation. Prerequisites: consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.  
(2-5 units)

# ART

## Master of Arts in Art

Art Education  
Studio Art

### Department of Art

Visual Arts Center, Room 105  
(909) 537-5802 <http://art.csusb.edu/>

**FACULTY:** Pearlie Rose Baluyut, Kurt Collins, Katherine Gray, Jiong Li, Richard Johnston, Sant Khalsa (Chair), George McGinnis, Thomas McGovern (Graduate Coordinator), Alison Petty, Billie Sessions, Brad Spence, Beth Steffel

## MASTER OF ARTS IN ART (ART EDUCATION )

### Requirements (45 units)

#### Admission to the Program

In addition to the general requirements of the University, specific requirements for admission to classified graduate standing are:

1. A baccalaureate degree from an accredited institution with a minimum of 30 quarter units of upper-division art comparable to those required of a major in art at this University. (The Art Department determines which courses are comparable);
2. Completion of a minimum of 10 quarter units of upper-division studio work in a single area of specialization;
3. Completion of a minimum of 20 quarter units in art history, a minimum of eight to be upper-division units;
4. A grade-point average of 3.0 ("B") or better in all art courses taken;
5. Completion of the graduate entrance writing requirement;
6. Completion of one year, K-12 art teaching experience
7. Admission to the program will additionally be based upon evaluations by the Art Department graduate committee of the following items:
  - a. A portfolio review displaying a comprehensive body of work with strong technical abilities and potential for a clear direction in graduate study within the studio area. A portfolio consists of 12–20 images of the applicant's artworks and 12–20 images of applicant's students' work in the form of labeled slides (in a plastic slide sheet) or on a CD. The portfolio must be accompanied by a typed list of artworks with the applicant's name, and title, medium, size and date for each artwork.
  - b. A two to three page typed "Statement of Purpose" describing the conceptual and technical aspects of the artwork in the portfolio and the applicant's reason for seeking graduate studies in art education. This statement should also demonstrate applicant's knowledge of historical and contemporary art in relation to their work. This statement should be carefully crafted and will be used by the committee to evaluate the student's writing and critical thinking skills.
  - c. Three letters of recommendation supporting the student's application. Letters should be from professionals and/or educators in art and/or related fields who are able to assess the student's competence and to make relevant comments on the student's likely success in a graduate art program.
  - d. Applicants will submit a current Vitae and an interview will be arranged by the art education faculty and/or the Graduate Coordinator. During this interview, applicants will write a short response paper on selected issues in art education.

Applicants who have satisfied the general requirements for admission, but who have deficiencies in prerequisite preparation which can be met by specified additional preparation may be admitted to the

program with conditionally classified standing. They will be advanced to classified standing when the Art Department graduate coordinator certifies that they have satisfied all appropriate requirements. Deficiencies must be made up as early in the program as possible, normally within the first 20 units after conditional admission.

Applications to the M.A. in Art, Art Education program are reviewed annually for Fall admission. The completed application deadline is March 15 for both the university and M.A. in Art, Art Education Program.

Contact the Art Department graduate coordinator to request a program application and further information.

### Advancement to Candidacy

Candidacy denotes that the student is fully qualified to complete the final stages of the Master of Arts program in Art with an emphasis in Art Education, and is thus eligible to enroll in ART 696 Master's Project in Art Education. To be formally advanced to candidacy, the student must have:

1. Completed the graduate entrance writing requirement. Students are urged to complete this requirement as early in their program as possible, and prior to taking any art history course work in the department;
2. Achieved classified status;
3. Been accepted by an art education advisor to supervise the course of study;
4. Completed, with the approval of the Art Department graduate coordinator, at least 15 quarter units of applicable course work at this university, and achieved a minimum grade of "B" (3.0) in these courses;
5. Successfully completed an advancement review conducted by the Department of Art graduate committee and art education advisor;
6. Filed a program of graduate course work prepared in consultation with the student's art education advisor and approved by the Art Department graduate coordinator.

### Requirements for Graduation

1. A minimum of 45 quarter units of approved graduate-level work, with at least 32 completed at this university;
2. A grade of at least 3.0 ("B") in all courses taken to satisfy the Master of Arts degree requirements;
3. Completion and exhibition of an acceptable art project, a report and documentation of the project approved by the student's graduate committee and the Art Department graduate coordinator, and a substantial art education research paper that will be presented during a public forum;
4. The graduation writing requirement is met upon successful completion of the art education research paper that accompanies the master's project in ART 696;
5. Any general requirements not cited above for graduate degrees and noted in the university catalog.

### Degree Requirements (45 units)

- |              |  |
|--------------|--|
| 1. ART 499   | Art Education: Methods and Materials (4)   |
| 2. ART 520.  | Contemporary Art, Theory and Criticism (4)   |
| 3. ART 595.  | Independent Study (1-6) for a total of (7) (chosen in consultation with the art education advisor) |
| 4. ART 603.  | Graduate Studio in Art (2) for a total of (8)  |
| 5. ART 620B. | Graduate Studio Critique (2) for a total of (4)  |
| 6. ART 618.  | Graduate Seminar in Contemporary Art Issues and Practices (4)                                      |
| 7. ART 641.  | Art Education: Survey of Research and Methodologies (4)  |
| 8. ART 643   | Art Education: Research Statement and Literature Review (2)  |

9. ART 696. Master's Project in Art Education (4)
10. Four units of electives appropriate to the student's goals. Courses may be chosen from upper-division and graduate offerings of any department in the university subject to prior approval by the student's area advisor and the Art Department graduate coordinator.

## MASTER OF ARTS IN ART (STUDIO ART)

### Requirements (45 units)

The Master of Arts in Art is designed to provide opportunities for further study in one or more of the studio areas within the department. The objectives of the program are to foster the artistic growth and competence of the individual, to provide the preparation for a professional career in the visual arts, and to provide a basis for further graduate study in the field. The program will also serve the needs of art instructors in the public schools who wish to pursue further study and enhance their skills.

### Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate standing are:

1. A baccalaureate degree from an accredited institution with a minimum of 45 quarter units of upper-division art comparable to those required of a major in art at this university;
2. Completion of a minimum of 20 quarter units of upper-division work in the area of specialization for the Master of Arts degree program;
3. Completion of a minimum of 20 quarter units in art history, a minimum of eight to be upper-division units;
4. A grade-point average of 3.0 ("B") or better in all art courses taken;
5. Completion of the graduate entrance writing requirement;
6. Admission to the program will additionally be based upon evaluations by the Art Department graduate committee of the following:
  - a. A portfolio review displaying a comprehensive body of work with strong technical abilities and potential for a clear direction in graduate study within the studio area. A portfolio consists of 12–20 images of the applicant's artworks in the form of labeled slides (in a plastic slide sheet) or on a CD. The portfolio needs to be accompanied by a typed list of artworks with the applicant's name, title, medium, size and date for each artwork;
  - b. A "Statement of Purpose" one to two typed pages in length describing the conceptual and technical aspects of the artwork and the applicant's reason for seeking graduate studies in art. This statement should also demonstrate the applicant's knowledge of historical and contemporary art in relation to their work;
  - c. Three letters of recommendation supporting the student's application. Letters should be from professionals and/or educators in the field of art who are able to assess the student's competence and make relevant comments on the student's likely success in a graduate art program.

Applicants who have satisfied the general requirements for admission, but who have deficiencies in prerequisite preparation which can be met by specified additional preparation, may be admitted to the program with conditionally classified standing. They will be advanced to classified standing when the Art Department graduate coordinator certifies that they have satisfied all appropriate requirements.

Applications to the M.A. in Art program are reviewed annually for Fall admission. The completed application deadline is March 15 for both the university and M.A. in Art Program. Contact the Art Department graduate coordinator to request a program application and further information.

### Advancement to Candidacy

"Candidacy" denotes that the student is fully qualified to complete the final stages of the Master of Arts program in Art, and is thus eligible to enroll in ART 695. Master's Project. To be formally advanced to candidacy, the student must have:

1. Completed the graduate entrance writing requirement. Students are urged to complete this requirement as early in their program as possible, and prior to taking any art history course work in the department;
2. Achieved classified status;
3. Been accepted by an area advisor to supervise the course of study;
4. Completed, with the approval of the Art Department graduate coordinator, at least 15 quarter units of applicable course work at this university, and achieved a minimum grade of "B" (3.0) in these courses;
5. Successfully completed an advancement review conducted by the Department of Art graduate committee and graduate coordinator;
6. Filed a program of graduate course work prepared in consultation with the student's area advisor and approved by the Art Department graduate coordinator.

### Requirements for Graduation

1. A minimum of 45 quarter units of approved graduate-level work, with at least 32 completed at this university;
2. A grade of at least 3.0 ("B") in all courses taken to satisfy the Master of Arts degree requirements;
3. Completion and exhibition of an acceptable project, and submission of a report and documentation of the project approved by the student's graduate committee and the Art Department graduate coordinator;
4. The graduation writing requirement is met upon successful completion of the written report that accompanies the master's project in ART 695;
5. Any general requirements not cited above and noted on Page 350.

Deficiencies must be made up as early in the program as possible, normally within the first 20 units after conditional admission.

### Degree Requirements (45 units)

1. ART 520. Contemporary Art, Theory and Criticism (4)
2. ART 525. Seminar in Art History (4)
3. ART 595. Independent Study (in area of concentration) (5)
4. Fifteen units in a single area of concentration chosen from:
  - ART 603. Graduate Studio in Art (2)
  - ART 604. Graduate Studio in Art (5)
  - ART 615. Graduate Seminar in Art (1) for a total of (3)
  - ART 620. Graduate Studio Critique (1) for a total of (3)
  - ART 630. Professional Practices in the Visual Arts (2)
  - ART 695. Master's Project in Studio Art (4)
5. Five units of electives appropriate to the student's goals. Courses may be chosen from upper-division and graduate offerings of any department in the university subject to prior approval by the student's area advisor and the Art Department graduate coordinator.



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**COURSE OFFERINGS IN ART (ART)**


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**Upper Division****520. Contemporary Art, Theory and Criticism**

An examination of selected major movements of contemporary art, and recent art theory and criticism. Formerly ART 459 and 625. Materials fee required. Prerequisite: a minimum of 12 units in art history. (4 units)

**525. Seminar in Art History**

Historical perspectives on specific art disciplines including research methods in art history for studio artists. Materials fee required. Prerequisite: a minimum of 12 units in art history. (4 units)

**575. Internship**

Supervised work in a private or public setting which provides professional experience in the field of art. May be repeated for a maximum of 10 units in the major. Materials fee required. Prerequisite: consent of instructor. (1-5 units)

**595. Independent Study**

Studio and/or library research conducted under the direction of a faculty member. May be repeated for credit, a total of ten units may apply toward graduation. Materials fee required. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-6 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**603. Graduate Studio in Art**

Investigation of advanced studio problems focusing on the development of individual directions. Materials fee may be required. Formerly ART 602. Prerequisite: admission to the M.A. in Art program. Corequisites: concurrent enrollment in ART 615 and 620 (2 units).

**604. Graduate Studio in Art**

Investigation of advanced studio problems focusing on the development of individual directions. Materials fee required. Formerly ART 605. Prerequisite: admission to the M.A. in Art program. Corequisites: concurrent enrollment in ART 615 and 620. (5 units)

**615. Graduate Seminar in Art**

Advanced study in contemporary art and theory with individual and group projects. A maximum of three units may be applied to the M.A. in Art. Materials fee required. Prerequisite: admission to the M.A. in Art program. Corequisite: concurrent enrollment in ART 603 or 604. (1 unit)

**617. Graduate Seminar in Critical Theory and Methodology**

Theoretical, critical and methodological approaches with emphasis on contemporary visual arts. Research paper is required in this course. Materials fee required. Prerequisite: admission to the M.A. in Art, Studio Art Emphasis. (4 units)

**618. Graduate Seminar in Contemporary Art Issues and Practices**

Current issues and practices and their relevance to contemporary artists. Materials fee required. Prerequisite: admission to the M.A. in Art, Studio Art or Art Education programs. (4 units)

**620. Graduate Studio Critique**

Weekly critique and discussion of individual student work. Graded credit/no credit. May be repeated and a maximum of 12 units may be applied to the M.A. in Art, Studio Art or four units to the M.A. in Art, Art Education Emphasis. Materials fee required. Prerequisite: admission to the M.A. in Art, Studio Art or Art Education programs. Corequisite: concurrent enrollment in ART 603 or 604. (2 or 4 units)

**630. Professional Practices in the Visual Arts**

The various roles of the artist in our society, portfolio development and selection of art markets, legal and financial issues in the production and protection of art, and postgraduate professional development. Materials fee required. Prerequisite: admission to the M.A. in Art program. (2 units)

**641. Art Education: Survey of Research and Methodologies**

Survey and examination of existing research in the field of Art Education. Various approaches to qualitative and quantitative research methodologies used in art education and of the history of the field. Materials fee required. Prerequisite: admission to the M.A. in Art, Art Education program. (4 units)

**643. Art Education: Research Statement and Literature Review**

Development of a research statement and literature review of student's chosen topic. Emphasis on in-class, guided, peer critique, and independent research. Materials fee required. Prerequisite: ART 641. (2 units)

**695. Master's Project in Studio Art**

Preparation and exhibition of works produced by student in the M.A. in Art, Studio Art. A report and documentation of the project required. Open only to students who have been advanced to candidacy. Materials fee required. Prerequisite: successful completion of advancement review conducted by the Department of Art graduate committee and graduate coordinator. (5 units)

**696. Master's Project in Art Education**

Preparation for and participation in a group exhibition of artwork produced in the student's area of studio emphasis, and preparation and presentation of research in art education. A report and documentation of the artwork, and a completed research paper required. Open only to students who have been advanced to candidacy. Materials fee required. Prerequisite: admission to the M.A. in Art, Art Education, successful completion of advancement review conducted by the Department of Art graduate committee, graduate coordinator, and art education advisor. (4 units)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

# BIOLOGY

## Master of Science in Biology

### Department of Biology

Biological Sciences Building, Room 329  
(909) 537-5305 <http://biology.csusb.edu/>

**FACULTY:** Colleen Bonney, Nicole Bournias, Klaus Brasch, Herbert Brunkhorst, Michael Chao, James Ferrari, Dalton Harrington (Emeritus), Sarojam Mankau (Emeritus), Anthony Metcalf, Kevin Middleton, Laura Newcomb, Paul Orwin, David Polcyn (Chair), Scott Shaffer, John Skillman, Alexander Sokoloff (Emeritus), Stuart Sumida (Graduate Coordinator), Jeffrey Thompson, Kimberlyn Williams, Ruth Wilson (Emeritus)

## MASTER OF SCIENCE IN BIOLOGY

### Requirements (45 units)

The Master of Science in Biology is designed to provide the flexibility required to develop specific course programs and acceptable thesis research proposals based upon the individual graduate student's interests and background. The general goal of the program is to provide the student with opportunity for improvement of competence, development of the ability to continue self-directed study, and development of intellectual responsibility in preparation for professional leadership in biology.

The graduate program in biology provides training in various concentrations of current research interest in molecular and population genetics, physiology, immunology, molecular biology, population and systematic ecology, neurobiology, plant and animal developmental biology, cellular biology, vertebrate morphology and paleontology, microbiology, parasitology, cancer biology and science education.

The department offers both thesis and non-thesis degree programs. The thesis option (Plan I) is designed for students entering research-related careers or planning to enter advanced graduate and professional degree programs. The non-thesis option (Plan II) is designed primarily for students entering professional fields such as teaching.

### Admission to the M.S. Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college or university;
2. Completion of an undergraduate major in biology or associated fields (e.g., microbiology, botany, zoology or chemistry with at least 30 quarter units of upper-division biology course work);
3. One year each of laboratory courses in: general biology, general chemistry, organic chemistry and physics;
4. One full-term course in basic calculus or methods in calculus;
5. Upper division courses in cellular or molecular biology, genetics, ecology, and organismal biology. Students lacking one of these courses may be admitted to the program, but must make up the deficiency in their first year. Students will not be permitted to enroll in 600-level biology courses without the appropriate prerequisite course. Graduate-level courses may have additional prerequisites.
6. A cumulative undergraduate grade point average of at least 3.0 ("B") in all courses used for credit in the major;
7. Completion of the graduate entrance writing requirement;
8. Submission to the Department of Biology Graduate Committee, scores from the Graduate Record Examination (GRE) including advanced testing in biology;

9. Submission to the Department of Biology Graduate Committee a one-page, typewritten statement of the student's preparation for graduate study, goals in the graduate training program, potential area of research and possible advisor (for thesis option) and professional goals following completion of the M.S.;
10. Submission of three letters of recommendation from people who are in a position to make relevant comments on the student's intent and potential for success in the M.S. program. At least two of the letters should be from current or former college or university faculty familiar with the student's scholarship and related activities.

Application deadlines for fall, winter and spring quarter admission are May 1, October 1, and January 15, respectively.

### Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Been accepted by a major advisor from the Department of Biology, if a thesis project is selected;
3. Completed at least 15 quarter units of work applicable to the degree program as a graduate student at this university with the approval of the Department of Biology Graduate Committee, and with a minimum grade point average of 3.0 ("B");
4. Gained a recommendation for advancement to candidacy from the Department of Biology Graduate Committee;
5. Submitted a formal program of graduate course work prepared in consultation with and approved by the Department of Biology Graduate Committee;
6. Gained final approval of the program and of the candidacy itself by the Dean of Graduate Studies.

### Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work included in the formal program, with no less than 32 units completed in residence at this university and with at least 24 units gained from 600-level courses in biology;
2. Advancement to candidacy for the degree and approval of the specific program of courses;
3. A grade point average of 3.0 ("B") in all graduate course work fulfilling the requirements of the Master of Science in Biology and grades of "C" (2.0) or better in each course in the program;
4. Completion of a final oral examination concluded by acceptance of the thesis (Plan I); or satisfactory completion of the Comprehensive Final Examination (Plan II);
5. The graduation writing requirement is met upon successful completion of the thesis or the written portion of the comprehensive examination;
6. Any additional general requirements not cited above and listed on Page 350.

### Department Graduate Committee and Major Advisor

The Department of Biology Graduate Committee consists of the graduate program coordinator and two or more faculty members. This committee has general supervision over the work of students progressing toward the Master's degree, and will determine whether students are adequately prepared for graduate study in biology.

Each new graduate student should consult with the graduate program coordinator for advice in selection of the appropriate graduate program. Students wishing to complete a thesis are responsible for contacting potential major advisors. Students may only enter the Thesis Program (Plan I) if they are accepted by a thesis advisor, and the Biology Graduate Committee approves the student's petition to enter the Thesis Program. The major advisor in consultation with the student will develop a program of specific courses and an acceptable thesis research proposal based on the student's interests, abilities and preparation. The major advisor will direct the thesis research. The program of courses and the thesis topic, as well as any subsequent

modification of these, are subject to approval by the Department of Biology Graduate Committee and the Dean of Graduate Studies.

Students following the non-thesis program should consult directly with the Department of Biology graduate program coordinator.

Students currently enrolled in the graduate program wishing to take courses off campus and include them in the degree program must petition the Department of Biology for approval through the graduate program coordinator and the Graduate Committee, otherwise the course may not be accepted as part of the program. 1000- to 9999-level extension courses are not applicable to the graduate program.

300-level courses taken will be accepted only by written approval of the department. 300-level courses are seen as support courses and therefore are not generally applicable to the graduate degree program.

Courses taken to satisfy quantitative or qualitative deficiencies cannot be applied toward a master's degree.

Repeat of courses or the comprehensive final examination require approval of the Department of Biology Graduate Committee and may be granted for serious and compelling reasons.

### Thesis Program (Plan I)

Students electing this program, Plan I below, must conduct an original research study and from these efforts write a thesis acceptable to the major advisor, the department graduate committee and the Dean of Graduate Studies. The student should consult the Department of Biology for details on preparing the thesis manuscript.

A final oral examination consisting primarily of discussion of the thesis and thesis research is required. The official examiners are the major advisor, the department graduate committee, and a representative from outside the Department of Biology chosen by the Dean of Graduate Studies. Successful completion of the final oral examination includes acceptance of the thesis by the examiners.

### Non-Thesis Program (Plan II)

Students pursuing this program are required to pass the Biology Department graduate comprehensive examination in addition to the completion of required course work selected from the three major curricular areas in biology as described in Plan II below. Students must register for BIOL 999 during the quarter they take the comprehensive final examination. The comprehensive final examination may be repeated one time only if justified by serious and compelling reasons and approved by the Biology Graduate Committee. Satisfactory completion of the Plan II must be certified by the Department of Biology Graduate Committee before graduation from the program is possible.

### Degree Requirements (45 units)

#### Plan I: Thesis Program

1. BIOL 601. Teaching Assistant Training in Biology (2)
2. BIOL 690. Graduate Seminar in Biology (2)
3. BIOL 692. Graduate Research Methods in Biology (2)
4. BIOL 699A. Thesis Research and Thesis I (3)
5. BIOL 699B. Thesis Research and Thesis II (3)
6. BIOL 699C. Thesis Research and Thesis III (3)
7. Five of the 600-level courses in Biology listed under "Course Categories" A, B, and C. (List follows Plan II below.) At least one of these must be taken from each of the three categories (minimum of 10 units.) Course categories are:
  - A. Cellular and Molecular Biology
  - B. Physiology and Organismal Biology
  - C. Ecology and Evolutionary Biology
8. Twenty units of electives to be chosen from biology or related courses at the 600-, 500- and 400-levels (excluding BIOL 601). A maximum of 12 units from any combination of BIOL 596, BIOL 692, and BIOL 696 may be applied toward the student's degree.

Courses taken outside the department to fulfill this requirement require prior approval of the Graduate Committee and thesis advisor.

9. Attendance of at least one per quarter Biology Department graduate presentations or selected colloquia, until the thesis has been defended satisfactorily.

#### Plan II: Non-Thesis Program

1. BIOL 601. Teaching Assistant Training in Biology (2)
2. BIOL 690. Graduate Seminar in Biology (2)
3. Eight courses, with a minimum of 16 units, of 600-level courses listed under "Course Categories" below. Must include at least two 600-level courses from each of the following categories:
  - A. Cellular and Molecular Biology
  - B. Physiology and Organismal Biology
  - C. Ecology and Evolutionary Biology
4. Twenty-five units of electives to be chosen from biology or related courses at the 600-, 500- and 400-levels, with at least one course in each of the categories (A, B, and C) below. A maximum of six units from any combination of BIOL 596, BIOL 692, and BIOL 696 may be applied toward the student's degree.
5. Upon completion of all course work, attendance of at least one per quarter Biology Department graduate presentations or selected colloquia, until the comprehensive examination has been passed.
6. Successfully complete BIOL 999.

#### Course Categories

- A. Cellular and Molecular Biology
  - BIOL 502. Genetic Engineering (4)
  - BIOL 528. Concepts of Molecular Genetics (4)
  - BIOL 572. Virology (4)
  - BIOL 590A. Senior Seminar: Molecular (2)
  - BIOL 590C. Senior Seminar: Cellular (2)
  - BIOL 590I. Senior Seminar: Microbiology (2)
  - BIOL 592. Recombinant DNA Techniques (4)
  - BIOL 600. Advanced Topics in Molecular Biology (2)
  - BIOL 605. Advanced Topics in Cell Biology (2)
  - BIOL 678. Advanced Topics in Microbiology (2)
- B. Physiology and Organismal Biology
  - BIOL 424. Comparative Animal Physiology (6)
  - BIOL 431. Comparative Plant Physiology (6)
  - BIOL 440. Principles of Development (5)
  - BIOL 524. Advanced Vertebrate Morphology (3)
  - BIOL 576. Endocrinology
  - BIOL 573. Immunology (5)
  - BIOL 580. Neurobiology (4)
  - BIOL 590D. Senior Seminar: Physiology (2)
  - BIOL 590F. Senior Seminar: Animal Use (2)
  - BIOL 590J. Senior Seminar: Zoology (2)
  - BIOL 590K. Senior Seminar: Botany (2)
  - BIOL 620. Advanced Topics in Plant Biology (2)
  - BIOL 624. Advanced Topics in Physiology (2)
  - BIOL 660. Advanced Topics in Development (2)
  - BIOL 675. Advanced Topics in Parasitology (2)
  - BIOL 677. Advanced Topics in Immunology (2)
- C. Ecology and Evolutionary Biology
  - BIOL 522. Population Genetics (4)
  - BIOL 565. Physiological Ecology (6)
  - BIOL 590B. Senior Seminar: Biosystematics (2)
  - BIOL 590E. Senior Seminar: Ecology (2)
  - BIOL 590G. Senior Seminar: Genetics (2)
  - BIOL 650. Advanced Topics in Genetics (2)
  - BIOL 664. Biosystematics (2)
  - BIOL 670. Advanced Topics in Ecology (2)
  - BIOL 680. Advanced Topics in Evolution (2)



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**COURSE OFFERINGS IN  
BIOLOGY (BIOL)**

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**Upper Division****502. Genetic Engineering**

A basic course on recombinant DNA technology, concentrating on major DNA manipulation methods, use of vectors, genetic probes, construction of libraries, transgenic animals, plant genetic engineering and ethical and safety considerations. Four hours lecture. Formerly BIOL 402. Prerequisites: BIOL 300 with a grade of "C" or better, BIOL 400, and CHEM 223 or 323. (4 units)

**503. Plant Biology for Teachers**

Examination of plant anatomy, morphology, physiology, ecology, and human use, as it applies to the Science Content Standards for California Public Schools. Not acceptable for meeting formal course requirements for the B.A., B.S., or M.S. in biology at CSUSB. Three hours lecture and three hours laboratory. Materials fee required. Prerequisites: one college-level biology course and graduate or postbaccalaureate standing, or consent of instructor. (4 units)

**522. Population Genetics**

Genetic and ecological mechanisms influencing the development, maintenance and evolution of populations. Four hours lecture. Prerequisites: BIOL 421, 422, and MATH 192 or 211. (4 units)

**524. Advanced Vertebrate Morphology**

Advanced techniques in the study of vertebrates, including dissection and specimen preparation. Construction of animal skeletal materials, and detailed study and dissection of vertebrate organ systems will provide the basis for projects designed on an individual student basis. Two hours lecture and three hours laboratory. Prerequisites: BIOL 342, 424 and consent of instructor. (3 units)

**528. Concepts of Molecular Genetics**

Chemical nature of genes, their replication and mode of action at the molecular level. Transfer and expression of genetic information; interaction and hybridization of genes, molecular mutagens and molecular evolution. Four hours lecture. Formerly BIOL 428. Prerequisites: BIOL 300 with a grade of "C" or better, BIOL 400, 421, 422, and CHEM 223 or 323. (4 units)

**530. Scanning Electron Microscopy**

Theory and techniques of scanning electron microscopy. Lectures on theory of operation of the scanning electron microscope and specimen preparation. Laboratory includes hands-on training in the use of the scanning electron microscope. Laboratory projects will teach technical aspects of specimen preparation and microscope use. Three hours lecture and six hours laboratory. (Also offered as GEOL 530. Students may not receive credit for both.) Prerequisites: senior standing and consent of instructor. (5 units)

**531. Transmission Electron Microscopy**

Theory and techniques of transmission electron microscopy. Lectures on theory of operation of the transmission electron microscope and specimen preparation. Laboratory includes hands-on training in the use of the transmission electron microscope. Laboratory projects will teach technical aspects of specimen preparation and microscope use. Three hours lecture and six hours laboratory. (Also offered as GEOL 531. Students may not receive credit for both.) Prerequisites: senior standing and consent of instructor. (5 units)

**532. Techniques in Ultrastructure Analysis**

Specialized techniques in ultrastructural analysis using either the scanning or transmission electron microscope. Topics will vary, but will include specialized techniques in specimen preparation, alternative image detectors, and image analysis. Theory of the analysis and training in the technical aspects will be covered. Three hours lecture and six hours laboratory. (Also offered as GEOL 532. Students may not receive credit for both.) Prerequisites: BIOL 530 or 531, or GEOL 530 or 531 and consent of instructor. (5 units)

**565. Physiological Ecology**

Physiological, biochemical and molecular attributes of organisms and their interactions with the environment. Explanations for distribution, survival and reproduction. Four hours lecture and six hours laboratory. Prerequisites: BIOL 354 and 424; or 431 and 331 or 342; and 450. (6 units)

**572. Virology**

Examination of the structure, genetics and modes of replication of viruses, viroids and other related sub-cellular entities; their implications in medicine and agriculture, and their use in scientific research. Four hours lecture. Formerly BIOL 472. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

**573. Immunology**

Foundations of immunology and current advances in the study of the immunological response. Laboratory examination of immunological assays applied in both research and clinical diagnostics. Four hours lecture and three hours laboratory. Materials fee required. Formerly BIOL 476. Prerequisites: BIOL 300 with a grade of "C" or better. (5 units)

**575. Internship in Biology**

Supervised work and study in work situations involving biological research and technical skills. May be applied only once toward degree electives in biology programs. May be repeated twice for free elective credit. Graded credit/no credit. Prerequisite: department approval in the quarter prior to registration. (2 units)

**576. Endocrinology**

Endocrine systems with emphasis on mechanisms for regulating the biosynthesis, secretion, transport and actions of hormones. Four hours lecture. Formerly BIOL 376 and 486. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

**580. Neurobiology**

Study on a cellular level of how neurons function in terms of structure, physiology and pharmacology. Mechanisms of inter-cellular communication, perception of sensory information, and development and aging of the nervous system will be examined. Formerly BIOL 480. Four hours lecture. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

**590. Senior Seminar**

Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change. Prerequisites: BIOL 300 with a grade of "C" or better, and a minimum of 15 upper-division biology courses supportive of the topic area and senior standing.

- A. Molecular (2 units)
- B. Biosystematics (2 units)
- C. Cellular (2 units)
- D. Physiology (2 units)
- E. Ecology (2 units)
- F. Animal Use (2 units)
- G. Genetics (2 units)



- H. Evolution (2 units)
- I. Microbiology (2 units)
- J. Zoology (2 units)
- K. Botany (2 units)
- L. Integrative Approach to Biology (2 units)
- M. Conservation Biology (2 units)

### 591. Biology Seminar

Topics of current biological interest, presented by students, faculty, and guest speakers. May be taken once for credit toward the undergraduate major requirements in Biology. May be taken three times for credit toward elective units in the Master of Science program in Biology. Lecture only. Graded credit/no credit. Formerly BIOL 390. Prerequisite: BIOL 300 with a grade of "C" or better. (1 unit)

### 592. Recombinant DNA Techniques

Techniques utilized in genetic engineering and biotechnology areas (mainly methods for isolating and analyzing genes, including bacterial isolation, DNA isolation and restriction analysis, transformation protocols and purification and manipulation of plasmid and chromosomal DNA techniques). A final research report will be required from the student. Two hours lecture and six hours laboratory. Materials fee required. Formerly BIOL 492. Prerequisites: BIOL 300 with a grade of "C" or better and BIOL 400. (4 units)

### 596. Independent Research

Laboratory and/or field research in selected areas in biology conducted under the direction of a faculty member. A total of six units in BIOL 596 may be applied toward graduation. Graded credit/no credit. Formerly BIOL 595. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. Consent must be obtained no later than the advisement period preceding the quarter of enrollment. All students will be required to attend the Biology Department colloquium called by the department chair each quarter until their projects are completed. (1-6 units)

### 597. Directed Study in Science Education

Readings and library research on the pedagogical content knowledge of a specific area of biology. This course should be taken concurrently with or shortly after taking an upper division course in the relevant area of biology. Graded credit/no credit. May be repeated for credit. No more than four units may be applied toward degree requirements for the BA in Biology-Integrated Teaching Credential Option; no more than two units may be applied toward biology elective requirements in other degree options. Prerequisites: consent of instructor and departmental approval of a written proposal submitted on a standard application form filed in advance of the quarter in which the course is to be taken. (1 unit)

### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

Enrollment is limited to students formally admitted to the M.S. in Biology. Instructor must verify consent prior to registration.

### 600. Advanced Topics in Molecular Biology

An in-depth consideration of selected research areas in molecular biology. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

### 601. Teaching Assistant Training in Biology

Teaching assistant training in biology trains graduate students in techniques and most current presentation and teaching methods of laboratory-based biology. Course is open to graduate students only. Topics include: teaching and discussion techniques specific to biology

laboratories, use of equipment-specific laboratories in the biological sciences, presentation strategies, and safety issues in biology. Successful completion of BIOL 601 is required before a student may act as a teaching assistant in the Department of Biology. Enrollment in BIOL 601 concurrent with first assignment as a teaching assistant is allowed with consent of instructor. Graded credit/no credit. Prerequisite: classified standing in Master's Degree Program. (2 units)

### 605. Advanced Topics in Cell Biology

An in-depth consideration of selected research areas in cell biology. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

### 620. Advanced Topics in Plant Biology

An in-depth consideration of selected areas of current study in plant biology. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

### 624. Advanced Topics in Physiology

An in-depth consideration of selected research areas in physiology. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

### 650. Advanced Topics in Genetics

An in-depth consideration of selected research areas in genetics. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

### 660. Advanced Topics in Development

An in-depth consideration of selected research areas in developmental biology. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

### 664. Biosystematics

Fundamental concepts of classification systems, biometric and experimental taxonomic procedures, nomenclature and systematic literature; both plant and animal materials used. Prerequisites: BIOL 421 and 422 and one taxonomy-based course; e.g. BIOL 319, 331, 335, 342, 353, or 354. Recommended: MATH 305. (2 units)

### 670. Advanced Topics in Ecology

Literature survey of specific topics related to community or ecosystem dynamics. May be repeated for credit as topics change. Prerequisite: BIOL 450 or equivalent. (2 units)

### 675. Advanced Topics in Parasitology

An in-depth consideration of selected research areas in parasitology. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

### 677. Advanced Topics in Immunology

An in-depth examination of current research in cellular and molecular immunology. May be repeated for credit as topics change. Prerequisite: BIOL 573. (2 units)

### 678. Advanced Topics in Microbiology

An in-depth examination of current research in microbiology. May be repeated for credit as topics change. Prerequisite: BIOL 220 or 320. (2 units)

### 680. Advanced Topics in Evolution

Topics of current research interest in plant or animal evolution. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

**690. Graduate Seminar in Biology**

Selected topics and reviews of current investigations in the fields of biology. Required of all graduate students in biology. May be repeated for credit as topics change. (2 units)

**692. Graduate Research Methods in Biology**

Specialized topics in research methods including theory and technique. Topics may vary. Two hours laboratory per unit of credit. May be repeated for credit, but no more than six units may be applied toward the degree. Graded credit/no credit. Prerequisites: classified standing in Master's Degree Program and consent of instructor. (1-3 units)

**696. Directed Graduate Research in Biology**

Original individual research in biology; to be conducted under the direct supervision of a faculty member of the student's committee, and if desired in collaboration with other members of the student's master's committee. Formerly BIOL 695A, 695B and 695C. The course may be taken up to three times for the maximum number of units specified in each degree track. Graded credit/no credit. Prerequisite: classified standing in Master's Degree Program and consent of instructor. (1-6 units)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

**699. Thesis Research and Thesis**

Independent graduate research conducted under guidance of the major advisor and resulting in a thesis. BIOL 699A, 699B, and 699C must be completed for a total of nine units. To retain their classified standing in the master's program, students enrolled in this course must attend the Biology Department colloquium called by the department chair each quarter until their projects are completed and their theses accepted. Prerequisite: advancement to candidacy.

- A. I. (3 units)
- B. II. (3 units)
- C. III. (3 units)

**999. Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

# BUSINESS ADMINISTRATION

## Master of Business Administration

Accredited by AACSB International, the Association to Advance Collegiate Schools of Business

with concentrations in:

- Accounting
- Entrepreneurship
- Finance
- Information Assurance and Security Management
- Information Management
- Management
- Marketing Management
- Supply Chain Management

## Master of Business Administration for Executives

### College of Business and Public Administration

Jack Brown Hall, Room 282

(909) 537-5703 <http://www.cbpa.csusb.edu/>

## MASTER OF BUSINESS ADMINISTRATION

### Requirements (48 units)

The Master of Business Administration (M.B.A.) program provides post-baccalaureate students with a high-quality master-level education in the field of business administration. The program is designed to prepare promising students for positions of increasing responsibility and leadership through education in the broad scope of business and through in-depth knowledge in one or more specialized areas of business.

The program is open to all qualified students, regardless of undergraduate major. Students who do not have a background in the area of business administration can obtain this required capability by completing designated prerequisite courses or through individual study with competency demonstrated through credit by examination or by demonstrated work experience.

### Admission to the M.B.A. Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A bachelor's degree from an accredited college or university;
2. Submission of an acceptable Graduate Management Admission (GMAT) score that meets the following conditions:
  - a. minimum GMAT score of 470;
  - b. minimum grade point average of 2.5, GPA is based on the last 90 quarter (60 semester) units and may include post-baccalaureate work;
  - c.  $(\text{GPA} \times 200) + \text{GMAT score}$  greater than or equal to 1,050 points;

An applicant may request waiver of the GMAT upon proof of completion of graduate work (e.g. J.D., Ph.D., M.D., etc.) from an accredited U.S. college or university with a minimum GPA of 3.0;

3. Completion of the graduate entrance writing requirement;
4. Competence in the following prerequisite courses or their equivalents:
  - A. ACCT 503. Financial Accounting  
or equivalent courses:  
ACCT 211. Introductory Accounting I  
ACCT 212. Introductory Accounting II
  - B. ECON 503. Economic Analysis  
or equivalent courses:  
ECON 200. Principles of Microeconomics  
ECON 202. Principles of Macroeconomics

- C. FIN 503. Financial Management Concepts  
or equivalent courses:  
FIN 313. Business Finance  
FIN 314. Corporate Financial Management
- D. INFO 309. Information Management
- E. One of the following:  
MGMT 302. Management and Organizational Behavior  
PSYC 302. Management and Organizational Behavior
- F. One of the following:  
MGMT 230. Business Law  
MGMT 406. International Business Law
- G. MGMT 490. Strategic Management
- H. MKTG 305. Marketing Principles
- I. SCM 210. Applied Business Statistics
- J. SCM 304. Principles of Supply Chain Management

**Note:** ACCT 503, ECON 503, and FIN 503 are intensive introductory courses taught at an accelerated pace and cover material otherwise available in two lower-division courses. Students who may have difficulty with accelerated courses should consider enrolling in the individual equivalent courses. Consult the graduate director for more information.

Competence in the above prerequisite courses may be demonstrated by:

- A. Formal completion of the course or its equivalent.
- B. Credit by examination.
- C. Waiver based on specialized work experience; must have documentation of work directly related to course to be waived; and must be approved by the college's director of graduate studies. (Students requesting waiver of any prerequisite courses must petition the college's director of graduate studies. Inquiries about a challenge examination or substitution for MGMT 306 should be directed to the Dean of Graduate Studies.)
5. Academic motivation and personal qualifications demonstrated through submission of a 200-250 word statement of reasons for wishing to pursue the M.B.A. at California State University, San Bernardino, and personal qualifications that will contribute to successful completion of the program;
6. In addition to the GMAT results, all international applicants who have not completed three years of full-time study at the secondary or post-secondary level where English was the language of instruction must take the Test of English as a Foreign Language (TOEFL) or complete Level 6 of CSUSB's ESL program or score a 7.0 on the IELTS exam.

Students who meet all entrance requirements except course prerequisites may be admitted to the program in a conditionally classified status until those prerequisite deficiencies are removed, at which time they will be advanced to classified graduate standing in the program. Only fully classified students, however, may enroll in 600-level courses unless they have written consent from the college graduate director.

### Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed, at least 16 quarter units of applicable graduate-level course work at the university, with a minimum grade point average of 3.0 ("B");
3. Completed an approved graduate program plan in consultation with an M.B.A. advisor after achieving conditionally classified or classified status;
4. Secured approval of the graduate director of the College of Business and Public Administration.

**Requirements for Graduation**

1. A minimum of 48 quarter units of acceptable graduate-level work, consistent with the program plan (with a grade point average of 3.0), with at least 36 units completed at the university;
2. At least 28 quarter units of 600-level course work;
3. At least 24 quarter units of credit taken after advancement to candidacy for the degree;
4. Successful completion of the required core courses and an elective concentration as outlined in the curriculum section;
5. A grade point average of 3.0 ("B") in all course work taken after admission to conditionally classified or classified status, and grades of "C" (2.0) or better in all courses in the program;
6. After advancement to candidacy, students must complete one of the following:
  - A. ADMN 998. Comprehensive Project (0 units)  
In consultation with a faculty advisor, completion and defense of a written project based on his or her concentration before a committee of graduate faculty.
  - B. ADMN 999. Comprehensive Examination (0 units)  
Successful completion of a comprehensive examination over the student's concentration any fall, winter or spring term after advancement to candidacy.

Students will not be allowed to do the project or take the comprehensive examination if grade point average is below 3.0 ("B");

7. Successful completion of ADMN 995 (MBA Portfolio) which includes preparation and submission of a portfolio of course work. The portfolio includes a reflective essay showing how the portfolio demonstrates accomplishment of essential goals for the program. Students register for this 0-unit course after advancement to candidacy, completion of 32 units of coursework, and are eligible for the comprehensive examination or project;
8. The graduation writing requirement is met upon successful completion of the comprehensive project or examination;
9. Any additional general requirements not cited above and listed on Page 350.

Concentrations are available in accounting, entrepreneurship, finance, information assurance and security management, information management, management, marketing management, and supply chain management. Prior to advancement to candidacy, a student must select one of these concentrations to be tested on through the comprehensive examination or project process. A "no credit" (NC) designation will be entered on the student's transcript if he/she fails the examination or project. Students who do not receive a passing grade on the examination on the first attempt must petition the college's director of graduate studies for permission to retake the examination. The examination will be offered fall, winter and spring quarters. Only students who are currently classified, have completed all required concentration courses, have been advanced to candidacy, have obtained approval of the graduate director, have grades of "C" or better, no "incomplete" grades and are not on probation may take the examination or do the project.

**Degree Requirements (48 units)**

1. ACCT 606. Accounting for Managerial Decision-Making (4)
2. FIN 602. Financial Theory and Corporate Finance (4)
3. INFO 609. Information Management Systems (4)
4. MGMT 601. Organization Theory and Behavior (4)
5. MGMT 685. Corporate Strategy in a Global Economy (4)
6. MKTG 605. Marketing Management (4)
7. SCM 607. Managing the Supply Chain (4)

Culminating Experience (0 units)

1. ADMN 995. M.B.A. Portfolio (0)
2. One of the following
  - ADMN 998. Comprehensive Project (0)
  - ADMN 999. Comprehensive Examination (0)

Concentration (20 units)

1. Twenty units from one of the following concentrations, chosen in consultation with an advisor:

**Accounting Concentration**

1. ACCT 610. Financial Reporting and Disclosure (4)
2. ACCT 615. Controllershship (4)
3. ACCT 620. Internal Auditing and Management Controls (4)
4. Four units chosen from:
  - ACCT 625. Seminar in Accounting Information Systems (4)
  - ACCT 629. Seminar in Tax and Business Decisions (4)
  - ACCT 642. International Accounting (4)
5. One additional elective either chosen from the two courses not chosen in category 4 above, or any other 600-level business administration concentration course approved by the MBA director and the department chair.

**Entrepreneurship Concentration**

1. Sixteen units chosen from:
  - FIN 622. Entrepreneurial and Venture Finance (4)
  - INFO 623. Entrepreneurial Information Management (4)
  - MGMT 515. Business Consulting (4)
  - MGMT 620. Entrepreneurial Analysis and Regulatory Risk (4)
  - MGMT 621. Entrepreneurship and New Ventures (4)
  - MKTG 624. Marketing for Entrepreneurs (4)
  - Any Internship (575) from the College of Business and Public Administration
2. MGMT 625. Entrepreneurial/Small Business Strategy and Policy (4)

**Finance Concentration**

1. FIN 651. Financial Institutions and Markets (4)
2. FIN 653. Investment Analysis and Portfolio Management (4)
3. FIN 654. International Finance (4)
4. FIN 680. Corporate Financial Strategy (4)
5. Four units chosen from:
  - FIN 523. Security Trading and Analysis (4)
  - FIN 534. Export-Import Financing (4)
  - FIN 575. Internship in Finance (4)
  - FIN 585. Real Estate Finance (4)
  - FIN 622. Entrepreneurial and Venture Finance (4)
  - FIN 655. Management of Financial Institutions (4)
  - FIN 690. Advanced Topics in Finance (4)
  - INFO 646. Information Systems Planning, Strategy and Policy (4)

**Information Assurance and Security Management Concentration**

1. INFO 511. Information Assurance and Security (4)
2. INFO 646. Information Systems Planning, Strategy and Policy (4)
3. INFO 647. Information Based Management (4)
4. INFO 648. Information Networking Systems and Security (4)
5. Four units chosen from:
  - INFO 590. Seminar in Information Management (4)
  - INFO 623. Entrepreneurial Information Management (4)
  - INFO 645. Information Systems Analysis and Design (4)
  - INFO 650. Information Decision Systems (4)
  - INFO 670. Information Visualization Strategies and Warehousing Strategies (4)
  - INFO 680. International Electronic Commerce (4)

**Information Management Concentration**

1. INFO 646. Information Systems Planning, Strategy and Policy (4)
2. INFO 647. Information Based Management (4)



3. INFO 648. Information Networking Systems and Security (4)
4. Eight units chosen from:
  - INFO 575. Internship in Information Management (4)
  - INFO 590. Seminar in Information Management (4)
  - INFO 595. Independent Study (4)
  - INFO 623. Entrepreneurial Information Management (4)
  - INFO 645. Information Systems Analysis and Design (4)
  - INFO 650. Information Decision Systems (4)
  - INFO 670. Information Visualization and Data Warehousing Strategies (4)
  - INFO 680. International Electronic Commerce (4)
  - INFO 690. Advanced Topics in Information Management (4)

#### Management Concentration

1. Twenty units chosen from:
  - MGMT 641. Managing Human Resources (4)
  - MGMT 642. Communication and Interpersonal Processes (4)
  - MGMT 644. Industrial Relations (4)
  - MGMT 645. Negotiation and Bargaining (4)
  - MGMT 646. Alternate Dispute Resolution and Third Party Intervention (4)
  - MGMT 650. International Management (4)
  - MGMT 690. Advanced Topics in Management (4)
  - COMM 522. Conflict Resolution Methodologies (4)

#### Marketing Management Concentration

1. MKTG 610. Consumer and Organizational Buying Behavior (4)
2. MKTG 620. Advertising Management (4)
3. MKTG 640. Advanced Marketing Research (4)
4. MKTG 696. Marketing Strategy (4)
5. Four units chosen from 500- or 600-level courses chosen in consultation with an advisor.

#### Supply Chain Management Concentration

1. SCM 611. Logistics and Supply Chain Management Strategies (4)
2. SCM 614. Advanced Quality Management (4)
3. SCM 615. Project Management (4)
4. SCM 650. Information Decision Systems (4)
5. SCM 660. Transportation and Supply Chain Management (4)

Students who wish to substitute up to two 300- or 400-level courses must petition the college's director of graduate studies for approval in advance; for each course approved, they will be required to enroll simultaneously in a two-unit independent study course directly related to the course selected. These independent study units cannot be applied to any graduate degree unit requirements.

The student should meet with an M.B.A. advisor upon achieving classified status to declare an area of concentration and file an approved program plan.

Students may not take more than a total of eight quarter units in any combination of College of Business and Public Administration 575, 590, 595, and 690 courses.

Only classified students (or those who have the consent of the college's director of graduate studies) may enroll in 600-level courses.

The program may not include more than 12 quarter units in transfer credit from other colleges. California State University, San Bernardino will not consider for transfer credit course work from any institution which will not accept that work in its own advanced degree program.

## MASTER OF BUSINESS ADMINISTRATION FOR EXECUTIVES

### Requirements (56 units)

The M.B.A. for Executives is a 56-unit program, and is a variant of the regular M.B.A. It offers a high quality learning experience to entrepreneurs and professional managers from a variety of fields such as engineering, financial management, information technology, human resources management, marketing, supply chain management, accounting, and health care administration. Participants are working executives who hold key decision-making positions within their organizations. The executive participants should have at least five years of managerial experience. They should also be career professionals who intend to become better managers and have aspirations of assuming positions with increasing levels of responsibility. It is designed for managers who want to obtain advanced business education and training in order to become more effective decision-makers.

### Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to the M.B.A. for Executives program are:

1. Minimum of five years experience as a manager in charge of a significant annual budget, staff, and/or operations;
2. Participants are required to have basic skills and competence in computer applications i.e., word processing, spreadsheet, e-mail, and the Internet;
3. Completion of the graduate entrance writing requirement;
4. A bachelor's degree from an accredited college;
5. A letter of Corporate or Individual Sponsorship. This letter ensures that the participants' sponsors will agree to allow them to attend classes two times per week, and determines if their sponsors plan to cover all or part of their educational fees. If a participant is self-sponsored, the employer should confirm their agreement with his/her attendance;
6. An acceptable Graduate Management Admission Test (GMAT) score which may be waived upon proof of substantial work experience (minimum 10 years) and significant managerial or professional experience (minimum of five years) with the approval of the M.B.A. Director and Graduate Committee. Managerial experience is defined as work experience in which the primary duty includes the overall responsibility for an enterprise, subdivision, department or similar independent or quasi-independent organization. Duties typically include such things as hiring and firing personal, planning, discretion and judgment, and organizing and controlling work that substantially affects a major aspect of the organization's operations. Individuals with this level of responsibility usually have titles such as "manager," "director," "vice-president," "president," "chief information officer," "chief financial officer," "chief operating officer." Professional experience is work that requires advanced knowledge acquired by a prolonged course of specialized study and involved work that is predominately intellectual and varied in character. Examples would include medical doctors, dentists, psychologists, lawyers, and certified public accountants;
7. In addition to the GMAT results, all international applicants who have not completed three years of full-time study at the secondary or postsecondary level where English was the language of instruction must take the Test Of English as a Foreign Language (TOEFL) or complete Level 6 of CSUSB's ESL Program or score a 7 on the IELTS exam.

Suitability for admission to the program will be based on an examination of the entire application package.

**Advancement to Candidacy**

To be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed, at least 20 quarter units of applicable graduate level course work at the university, with a minimum grade point average of 3.0 ("B");
3. Completed an approved graduate program plan in consultation with an M.B.A. advisor after achieving conditionally classified or classified status;
4. Secured approval of M.B.A. director.

**Requirements for Graduation**

To qualify for the degree, students are required to:

1. Complete the 48 quarter units (exclusive of the two prerequisite courses) with a grade point average of 3.0 ("B") or better;
2. The graduation writing requirement is met upon successful completion of the comprehensive project or examination;
3. At least 28 quarter units at 600-level course work;
4. At least 24 quarter units of credit taken after advancement to candidacy for the degree;
5. A grade point average of 3.0 ("B") in all courses taken after admission to conditionally classified or classified status, and grades of 2.0 ("C") or better in ALL courses in the program;
6. After advancement to candidacy, students must complete one of the following:
  - A. ADMN 998. Comprehensive Project (0)
  - B. ADMN 999. Comprehensive Examination (0)
7. Successful completion of ADMN 995.

Prerequisites: Managerial Tools Courses (8 units)

1. ADMN 501. Quantitative Tools for Executives (4)
2. ADMN 502. Managerial Communication and Policy (4)

The managerial tools courses are intended to provide a solid foundation for the material to be presented in the core concentration courses. One or more of these tools courses may be waived based on prior academic course work.

**Degree Requirements**

Business Functional Area Core Courses (28 units)

1. ACCT 606. Accounting for Managerial Decision-Making (4)
2. FIN 602. Financial Theory and Corporate Finance (4)
3. INFO 609. Information Management Systems (4)
4. MGMT 601. Organization Theory and Behavior (4)
5. MGMT 685. Corporate Strategy in a Global Economy (4)
6. MKTG 605. Marketing Management (4)
7. SCM 607. Managing the Supply Chain (4)

Functional Elective Courses (20 units)

1. Twenty units from the College of Business and Public Administration graduate electives chosen in consultation with an advisor.

Culminating Experience (0 units)

1. ADMN 995. M.B.A. Portfolio (0)
2. One of the following
  - ADMN 998. Comprehensive Project (0)
  - ADMN 999. Comprehensive Examination (0)

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**BETA GAMMA SIGMA**

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The university has an active chapter of Beta Gamma Sigma, a national organization that encourages and honors academic achievement and personal excellence in the study and practice of business. Membership is by invitation extended to undergraduate and graduate business students of high scholarship and good moral character.

*Undergraduate course descriptions for Accounting, Finance, Information Management, Management, Marketing, and Supply Chain Management are listed alphabetically throughout the undergraduate studies section of the catalog.*

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**COURSE OFFERINGS IN  
ACCOUNTING (ACCT)**

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**Upper Division****503. Financial Accounting**

Intensive introduction to applied topics and techniques in financial accounting. Development of accounting information according to U.S. GAAP for external reporting purposes. Economic and financial analysis of financial statements. No credit will be awarded to students who have taken ACCT 211 and 212. May not be counted toward fulfilling requirements for any degree program offered by the College of Business and Public Administration. (4 units)

**536. Corporate and Partnership Taxation**

The basic concepts of the federal income taxation of corporations and partnerships. Formerly ACCT 436. Prerequisite: ACCT 426 with a grade of "C" or better or consent of instructor. (4 units)

**539. Advanced Accounting**

Advanced topics in accounting including business combinations, multinational operations and foreign currency transactions, liquidations, and reorganizations. Includes partnership formation, income distribution and liquidation. Formerly ACCT 439. Prerequisite: ACCT 373. (4 units)

**556. Estates and Gifts and other Specialized  
Taxation Topics**

Taxation topics not covered in depth in ACCT 426 and 536, including gift and estate tax, income taxation of trusts and estates, tax administration and practice, working with tax law, advanced individual income tax topics, and other special topics. Formerly ACCT 456. Prerequisite: ACCT 426 with a grade of "C" or better or consent of instructor. (4 units)

**568. Accounting for Government and  
Not-for-Profit Organizations**

Covers principles and practices of government fund accounting. Topics include governmental accounting concepts, types and structure of funds and accounts, application of generally accepted accounting principles to government and not-for-profit entities, presentation and uses of financial statements. (Also offered as PA 568. Students may not receive credit for both.) Prerequisite: ACCT 211. (4 units)

**574. Reporting Issues in Intermediate Accounting**

Study of revenue recognition, deferred taxes, pensions and leases. Formerly ACCT 374. Prerequisite: ACCT 372 with a grade of "C" or better. (4 units)

**575. Internship in Accounting**

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

**590. Seminar in Accounting**

An intensive study of some phase of accounting to be developed by the instructor. May be repeated for credit as topics change. (4 units)

**595. Independent Study**

Special topics involving library and/or field research. A total of ten units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (2 or 4 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

Students must be fully classified or have written consent of the college graduate director to enroll in graduate level courses.

**605. Health Care Accounting and Financial Analysis**

Basic concepts, methods, and application of cost and accrual accounting, finance and budgeting techniques and methods applied to health services and health care organizations, with computer application and analysis. (Also offered as HSCI 605. Students may not receive credit for both.) (4 units)

**606. Accounting for Managerial Decision-Making**

Study and application of the concepts and techniques used by management for planning and controlling business activities. Prerequisite: ACCT 503 or completion of ACCT 211 and 212. (4 units)

**610. Financial Reporting and Disclosure**

An in-depth study of financial accounting, reporting, and disclosure. Professional accounting and reporting standards will be examined. Prerequisite: ACCT 606. (4 units)

**615. Controllershship**

In-depth study of accounting techniques, concepts and procedures related to the functions and responsibilities of the controller. Consideration of management reporting systems, planning and controlling functions, resource allocation, transfer pricing, the general ledger-based system, departmental expense control and investment planning. Prerequisite: ACCT 606. (4 units)

**620. Internal Auditing and Management Controls**

Study of the theory and practice of auditing as it applies to the internal and management controls function of the organization. Topics include statements of auditing standards, ethical and legal responsibilities, internal control structure considerations, statistical sampling applications, computer-assisted auditing techniques and regulatory agency requirements. Prerequisite: ACCT 610. (4 units)

**625. Seminar in Accounting Information Systems**

A study of the design and operation of accounting information systems in both mainframe and microcomputer environments. Advanced consideration of internal control and auditing of computer-based systems. Environmental hardware and software implications for security and quality control are examined. Prerequisite: ACCT 610 or consent of instructor. (4 units)

**629. Seminar in Tax and Business Decisions**

Study of how taxation affects business decisions of both domestic and multinational business. Topics include introduction to tax policy, comparative tax systems, tax effects on investment and financing activities, taxation of multinational transactions, and basic tax research methodology. Prerequisite: ACCT 610 or consent of instructor. (4 units)

**642. International Accounting**

Critical examination of current developments in international accounting; the difficulty of preparing precise and universally accepted accounting principles; social, economical, and political influences on comparative accounting theory and practice. Financial reporting and control of multinational enterprises are also discussed. Prerequisite: ACCT 610 or consent of instructor. (4 units)

**690. Advanced Topics in Accounting**

Intensive study of an advanced topic in accounting. May be repeated for credit as topics change. (4 units)

**695. Graduate Independent Study**

Independent graduate research in accounting. No more than four units in this course may be applied toward the master's degree. Prerequisites: graduate standing in accounting, consent of instructor, and approval of a written proposal of the research by the graduate program director. (1-4 units)

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**COURSE OFFERINGS IN****ADMINISTRATION****(ADMN)**

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**Upper Division****501. Quantitative Methods for Managers**

A review of major analytical methods used by managers to facilitate their decision making, including accounting, finance, operations and other decision science tools. (4 units)

**502. Managerial Communication and Policy**

A review and integration of the managerial areas of human resource management, marketing, organizational communication, negotiation skills, and policy and strategy into a decision-making framework that is bound by legal, ethical and global considerations. (4 units)

**590. Seminar in Administration**

Intensive study of some phase of administration to be developed by instructor. May be repeated for credit as topics change. (2-4 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

Students must be fully classified or have written consent of the college graduate director to enroll in graduate level courses.

**604. Managing Cost, Operations, and Financial Reporting**

The main focus of this course is the analysis of the basic financial statements, historical/replacement cost accounting, financial and business environments of the firm, the time value of money and financial analysis, planning and control. The course also covers the identification, understanding and analyses of the fundamental business problems and policies that have financial implications. The course will serve as a prerequisite for ACCT 606 and FIN 602. (4 units)

**605. Product Development and Distribution**

Integrative course that acquaints students with the methods of planning, organizing, and controlling for the creation and distribution of goods and services. Topics include: sales forecasting techniques, product planning and pricing, sales and product budgeting, linear programming: transportation and assignment models, inventory planning and control, value chain analysis, materials requirements planning, aggregate capacity planning and scheduling, waiting lines, pricing and promotion strategies, statistical quality control and maintenance, and distribution strategy. (4 units)

**695. Directed Graduate Studies**

Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the student's committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of the Dean of Graduate Studies. (1-6 units)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

**995. MBA Portfolio**

Preparation and submission of a portfolio containing assignments representing successful work in the MBA program, accompanied by a reflective essay showing how the portfolio demonstrates the accomplishment of the goals of the program. Graded credit/no credit. Prerequisite: completion of 32 units in the program. (0 units)

**998. Comprehensive Project**

In consultation with a faculty advisor, completion and defense of a written project based on his or her concentration before a committee of graduate faculty. Open only to students who have been advanced to candidacy and with the approval of the college graduate director. (0 units)

**999. Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter in the concentration. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program and in good academic standing. May be taken any fall, winter or spring term after advancement to candidacy. (0 units)

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**COURSE OFFERINGS IN  
FINANCE (FIN)**

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**Upper Division****503. Financial Management Concepts**

An introductory course in financial management with an emphasis on concepts, tools and strategies underlying corporate financial decision-making. Topics include techniques used by firms in procuring and allocating capital for short-term and long-term operations. No credit will be awarded to students who have had FIN 313 and 314. May not be counted toward fulfilling requirements for any degree program offered by the College of Business and Public Administration. Prerequisite: ACCT 503. (4 units)

**523. Security Trading and Analysis**

An applied investment analysis course, emphasizing the application of modern portfolio theory and asset allocation models in selecting and evaluating stocks and bonds. This web-enhanced course utilizes modern computer and data facilities to conduct extensive fundamental and technical analysis, security portfolio tracking, performance measurement, and trading simulation and strategies. Prerequisite: FIN 503 or equivalent. (4 units)

**534. Export-Import Financing**

International complexities of exporting and importing. Emphasis on the benefits of international trade, the various ways to enter the global market, project financing, trading blocs and investment strategies, components of an export-import quotation, methods of payment, imports, exports, contracts and public and private assistance programs. Prerequisite: FIN 313. (4 units)

**575. Internship in Finance**

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

**585. Real Estate Finance**

Financial aspects of real estate investment will be discussed including analysis characteristics, lending environment, financial instruments, and effective loan proposals. Prerequisite: FIN 313 or consent of instructor. (4 units)

**590. Seminar in Finance**

An intensive study of some phase of finance to be developed by the instructor. May be repeated for credit as topics change. (4 units)

**595. Independent Study**

Special topics involving library and/or field research. A total of ten units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (2 or 4 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

Students must be fully classified or have written consent of the college graduate director to enroll in graduate level courses.

**602. Financial Theory and Corporate Finance**

Modern finance theory and analysis of financial decision making. Topics include valuation, risk and return, cost of capital, capital budgeting, capital structure policy, dividend policy, working capital management, financial planning, and corporate control. Prerequisites: FIN 313 and 314 or 503. (4 units)

**622. Entrepreneurial and Venture Finance**

An overview of the financial and investment of entrepreneurial firms. Focus is on financial and investment strategies available to entrepreneurial firms and the criteria for selecting the appropriate strategy. Prerequisite: FIN 602. (4 units)

**651. Financial Institutions and Markets**

Analysis of financial institutions and markets. Term structure of interest rates, portfolio theory and flow-fund analysis, deposit-type intermediaries, insurance, pension funds and investment companies. Prerequisite: FIN 313, 314 or 503. (4 units)

**653. Investment Analysis and Portfolio Management**

Comprehensive introduction to the descriptive and formalized quantitative areas of security analysis and portfolio management. Three hours lecture and two hours activity laboratory. Prerequisite: FIN 602. (4 units)



**654. International Finance**

Study of international financial environment and problems in operation of multinational enterprises with major focus on theory and practice of foreign exchange transactions, money and capital markets, investment decisions, current asset management and comparative financial systems. Prerequisite: FIN 602. (4 units)

**655. Management of Financial Institutions**

Concepts and techniques used in management of banks, savings and loans, credit unions and finance companies. Topics include asset, liability and capital management, expense control and productivity analysis. Prerequisite: FIN 651. (4 units)

**680. Corporate Financial Strategy**

Advanced topics in the field with emphasis on formulation of financial strategy. Integrates various topics in finance including mergers and reconstruction, acquisitions, debt capacity, capital budgeting, investment policy and strategy. Includes international, social, and ethical issues. Prerequisites: FIN 651, 653 and 654 or consent of instructor. (4 units)

**690. Advanced Topics in Finance**

Intensive study of an advanced topic in finance. May be repeated for credit as topics change. (4 units)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

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**COURSE OFFERINGS IN  
INFORMATION MANAGEMENT (INFO)**


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**Upper Division****511. Information Assurance and Security**

Advanced study of information assurance and security including theory, methods, and practices used by federal and state agencies, and private sector best practices. Topics include: threat assessment, evidence collection, forensics, countermeasures, practices and law. Students will work in a simulated environment and will investigate crimes and experience various security scenarios. Data center practices for the purpose of audit, control and accreditation are explored. Formerly a topic under INFO 590. Prerequisites: INFO 309, and either 475 or 648; or consent of instructor. (4 units)

**575. Internship in Information Management**

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

**590. Seminar in Information Management**

An intensive study of some phase of information management to be developed by the instructor. May be repeated for credit as topics change. (4 units)

**595. Independent Study**

Special topics involving library and/or field research. A total of ten units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (2 or 4 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students. Students must be fully classified or have written consent of the college graduate director to enroll in graduate level courses.

**609. Information Management Systems**

Advanced applications of computer and information systems in organizations. Topics include information management planning, information technologies, information assurance and security, risk assessment, resource allocation and information based management. Prerequisite: INFO 309. (4 units)

**623. Entrepreneurial Information Management**

Explores the use of current personal computing technology upon entrepreneurial organizations and management. Topics will include e-commerce, web-based business strategies, commerce security and privacy, and computer software used by entrepreneurs. Prerequisite: INFO 609. (4 units)

**645. Information Systems Analysis and Design**

Managerial perspective of the methods used in the design and maintenance of computer based information systems. Issues in systems design, from project identification to implementation and maintenance, documentation standards, certification testing and system accreditation practices, copyright and legal issues will be presented. Tools and principles related to newer techniques such as joint application development and object oriented data base design. Prerequisite: INFO 609. (4 units)

**646. Information Systems Planning, Strategy and Policy**

Information systems planning, strategy and policy are necessary for an organization to deploy, manage and control its information resources. Takes the view of the Chief Information Officer integrating information systems with the business strategy and information needs of the organization through the process of information systems strategic planning and policy development. Information and security architecture theory, tools, assessments, methodologies and practice are applied. Prerequisite: INFO 609. (4 units)

**647. Information Based Management**

Advanced theory and application of data base management in organizations. Topics include manager's need for information, elements of a data base, types of data bases, difference in data bases, administration issues, data certification/classification, life cycle, access control, and legal requirements. Prerequisite: INFO 609. (4 units)

**648. Information Networking Systems and Security**

Advanced study of developing, implementing, securing and managing information networks. Topics include use of hardware, software, routers, wireless communications, and Voice over IP. Management issues such as access control, privacy, protocol security and policies are also explored. Prerequisite: INFO 609 or consent of instructor. (4 units)

**650. Information Decision Systems**

Concepts, principles, practices and tools needed to support the management decision making process. Both static and dynamic models of information management related to decision making will be explored. Specific topics include risk management, incident handling, threat assessment, allocating resources and system certification. (Also offered as SCM 650. Students may not receive credit for both.) Prerequisites: INFO 609 and SCM 607. (4 units)

**670. Information Visualization and Data Warehousing Strategies**

Information visualization and data warehousing strategies for organizations in product and service centered areas. Integration of information mapping and large data base tools and concepts to solve and support decision making. Prerequisite: INFO 609. (4 units)

**680. International Electronic Commerce**

Information technology in international business including: electronic data interchange, information technology in transnational firms. Managing information through international strategic alliances, corporate factors affecting global IT requirements, transnational information technology policy issues, transborder data flows and IT architecture for electronic commerce. Prerequisite: INFO 609. (4 units)

**690. Advanced Topics in Information Management**

Intensive study of an advanced topic in information management. May be repeated for credit as topics change. (4 units)

**695. Graduate Project**

Independent graduate research in information management. Project will be under direction of a faculty member. Prerequisites: advancement to candidacy, written approval of student's graduate project committee and graduate director. (4 units)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

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**COURSE OFFERINGS IN  
MANAGEMENT (MGMT)**

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**Upper Division****515. Business Consulting**

Supervised consulting assignments designed to provide meaningful business assistance to small businesses. Prerequisites: consent of instructor and college. (4 units)

**520. Legal Regulation of Intellectual Property**

Analysis of federal, state and international law on intellectual property and technology, including principles of contract law, intellectual law, taxation law, tort law, anti-trust law and criminal law with respect to technology and intellectual property. Prerequisites: MGMT 230 and 330. (4 unit)

**531. Sports Management**

Theory and analysis of the factors, participants, evaluation methods of modern sports and entertainment management. (4 units)

**533. Sports and Hospitality Business Law**

Legal issues and policies impacting sports management and business, including contracts, labor law, negotiations and constitutional issues integral to the field of sports and hospitality management. (4 units)

**541. Commercializing Entrepreneurial Innovation**

Examines the process of commercializing innovations and emerging technologies in entrepreneurial driven companies. Focus on understanding the strategy, tactics and behaviors necessary to manage the transition from basic development stages to commercial venture, examining the role of innovation assessment, intellectual property protection, technology transfer and licensing. (4 units)

**543. Entrepreneurial Opportunity Analysis**

Process of defining and identifying the difference between ideas and opportunities including the role of the entrepreneur, ideas, pattern recognition, and the evaluation and screening process that leads to successful commercialization of business concepts and ideas. (4 units)

**545. Entrepreneurial Resource Requirements**

Strategies and techniques employed by entrepreneurs to identify and access critical resources. Special emphasis on marshalling internal and external resources such as advisors, board of directors, and social networks. (4 units)

**547. Managing a Growing Business**

Study of the basic strategy and tactics to manage growing enterprises while still maintaining an entrepreneurial spirit. Examines the role of management decision making, management control systems, short- and long-term planning, and entrepreneurship in managing growing companies. (4 units)

**549. Launching the Entrepreneurial Venture**

Process and methods involved in starting and growing new enterprises with emphasis on the attributes of entrepreneurs, entrepreneurial careers and positioning an enterprise for sustainable growth. (4 units)

**575. Internship in Management**

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

**580. Business Game Competition**

Competition based on a business game simulation that is designed to enable advanced business students to integrate and apply the theories of their various business courses. Formerly a topic under MGMT 590. Students may not receive credit for both. (4 units)

**590. Seminar in Management**

An intensive study of some phase of management to be developed by the instructor. May be repeated for credit as topics change. (2 or 4 units)

**595. Independent Study**

Special topics involving library and/or field research. A total of ten units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall

grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (2 or 4 units)

### **Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

Students must be fully classified or have written consent of the college graduate director to enroll in graduate level courses.

#### **601. Organization Theory and Behavior**

A critical analysis of theories for viewing organizations and an examination of the common models for understanding human behavior, including executive behavior, within the constraints of a complex social system. Prerequisite: MGMT 302 or PSYC 302. (4 units)

#### **620. Entrepreneurial Analysis and Regulatory Risk**

Critical analysis of the impact of administrative law and policy on entrepreneurial decision-making and strategy. Integrates legal, political, regulatory and ethical issues encountered by entrepreneurs. (4 units)

#### **621. Entrepreneurship and New Ventures**

Study of the entrepreneurial process from a behavioral perspective. Review of theoretical and empirical literature as a foundation for analyzing case studies of successful entrepreneurs. Focus on managerial challenges for new and growing companies with special emphasis on the entrepreneurial personality, leadership, ethics, motivation, goal setting, group dynamics, and organizational design. Prerequisite: completion of, or concurrent enrollment in, MGMT 601. (4 units)

#### **625. Entrepreneurial/Small Business Strategy and Policy**

Interdisciplinary study of the policies and strategies of entrepreneurship. Integrates important technical and innovative considerations with traditional managerial theories to establish a modern scientific approach to the development of strategies and policies for entrepreneurial and innovative businesses. Prerequisite: completion of concentration electives. (4 units)

#### **641. Managing Human Resources**

Analysis of specific areas and problems in the administration of human resource systems and policies. Topics include employment law, job analysis, recruitment, selection, performance appraisal, and compensation administration. (4 units)

#### **642. Communication and Interpersonal Processes**

Study of interpersonal processes, communication, and conflict as they relate to organizational efficiency and effectiveness, as well as a consideration of the organization as a communication system. (4 units)

#### **644. Industrial Relations**

Analysis of industrial relations systems in major industries, collective bargaining institutions, processes, legal environment and problems. (4 units)

#### **645. Negotiation and Bargaining**

Theory and practice of negotiation and bargaining including the analytical skills necessary to prepare, plan, and present advocacy positions, anticipate opposing positions, envision and achieve optimal resolutions of disputes. Course participants will simulate, negotiate, debrief, discuss, and evaluate negotiation problems, strategies and tactics. (4 units)

#### **646. Alternative Dispute Resolution and Third Party Intervention**

Theory and practice of third party intervention in organizational conflict and the third party roles of consultant, councilor, facilitator, conciliator, mediator, ombudsperson, fact-finder, and arbitrator in business and public organizations. (4 units)

#### **650. International Management**

Management of organizations in multinational and international environments. Emphasis on economic, political and sociocultural influences. Prerequisite: MGMT 302 or PSYC 302 or MGMT 601 or consent of instructor. (4 units)

#### **685. Corporate Strategy in a Global Economy**

Long-term strategy of the business organization in the context of the global economy from the perspective of the General Manager who has overall responsibility for the performance of the firm or the business unit of the firm. Topics include strategy formulation and implementation, industry competitive analysis, core competencies and key success factors, diversification and strategic alliances, all within a global framework. Emphasis is on cases and small-group work. Prerequisites: completion of, or concurrent enrollment in, the last core course for the Master of Business Administration and consent of graduate director. (4 units)

#### **690. Advanced Topics in Management**

Intensive study of an advanced topic in management. May be repeated for credit as topics change. (4 units)

#### **698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

### **COURSE OFFERINGS IN**

#### **MARKETING (MKTG)**

##### **Upper Division**

#### **520. Integrated Marketing Communication**

An integrated perspective on the process of communicating marketing messages to promote products, services, ideas, people, causes and events. Advertising, direct marketing, personal selling, public relations, and sales promotion strategies are explored with consideration given to global, ethical, and technology-related issues. (Also offered as COMM 520. Students may not receive credit for both). (4 units)

#### **525. Sports and Entertainment Marketing**

Examination of the theoretical and practical aspects of marketing management in the sports and entertainment industry. Formerly a topic under MKTG 590. (4 units)



**374 / Business Administration****530. Strategic Entrepreneurship**

The role of entrepreneurship in today's economy: identifying entrepreneurial opportunities, designing incubator business projects, strategic entrepreneurial alliances and global market strategies for entrepreneurial ventures. The role of marketing mix in the start up and operation of entrepreneurial ventures. Formerly a topic under MKTG 590. Prerequisite: junior standing. (4 units)

**540. E-Marketing**

Development of a web-based marketing program. Discussion of customer data bases, logistics of E-marketing, and the flow of products, funds, and information in E-channels. Focus is on understanding how goods and services are created and delivered through the web. Three hours lecture and two hours laboratory. Formerly a topic under MKTG 590. (4 units)

**550. Advanced Sports Marketing Planning and Strategy**

An integrative approach to strategic sports marketing management providing theoretical and practical aspects of marketing management in the sports industry. Topics include the planning, design and execution of a comprehensive situation analysis, identification and evaluation of strategic marketing alternatives, and the implementation of marketing plans and programs. Three hours lecture and two hours computer laboratory. Prerequisites: MKTG 525 or consent of instructor. (4 units)

**555. Advanced Entertainment Marketing Planning and Strategy**

An integrative approach to strategic entertainment marketing management providing theoretical and practical aspects of marketing management in the entertainment industry. Topics include the planning, design and execution of a comprehensive situation analysis, identification and evaluation of strategic marketing alternatives, and the implementation of marketing plans and programs. Three hours lecture and two hours computer laboratory. Prerequisites: MKTG 525 or consent of instructor. (4 units)

**560. Services Marketing**

The process of designing and marketing intangible services for profit and non-profit organizations. Emphasis on customer-focused strategies for developing, promoting, pricing and evaluating service mixes in a global context. Formerly a topic under MKTG 590. Prerequisite: junior standing. (4 units)

**565. Logistics**

Science of movement, storage, delivery and distribution. Topics include channels of distribution, purchasing, customer service, inventory types and functions. Formerly MKTG 450. Prerequisite: MKTG 305. (4 units)

**572. Import-Export Management**

Current practices and opportunities in importing and exporting goods with emphasis on preparing products for foreign shipment, shipping, necessary documentation and use of free trade zones. Formerly MKTG 472. Prerequisite: MKTG 305 or consent of instructor. (4 units)

**575. Internship in Marketing**

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

**590. Seminar in Marketing**

An intensive study of some phase of marketing to be developed by the instructor. May be repeated for credit as topics change. (4 units)

**595. Independent Study**

Special topics involving library and/or field research. A total of ten units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (1-5 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

Students must be fully classified or have written consent of the college graduate director to enroll in graduate level courses.

**605. Marketing Management**

Problem-solving and decision-making in marketing and the interacting effects of such factors as selling, advertising, pricing, consumer behavior and channels of distribution. Prerequisite: MKTG 305 or equivalent. (4 units)

**610. Consumer and Organizational Buying Behavior**

Influences on the purchasing behavior of individual consumers and organizational buyers. Use of theories, concepts and research findings in management and public policy decisions. Prerequisite: MKTG 605. (4 units)

**620. Advertising Management**

Emphasis on the managerial approach to advertising in its relationship to marketing management, including consumer behavior, audience analysis, research, advertising media, appeals, campaign development, as well as legal, ethical, and international aspects of advertising. Also examines communication processes and other promotional activities. Prerequisite: MKTG 605. (4 units)

**624. Marketing for Entrepreneurs**

An in-depth study of entrepreneurial and small business marketing strategies and techniques. Examines how start-up small businesses develop and implement innovative marketing techniques. Provides alternative insights to the conventional approaches of large businesses. Prerequisite: MKTG 605. (4 units)

**640. Advanced Marketing Research**

Advanced study of current marketing research methods used to gather, analyze and transform data into information required for managerial decision-making. Includes qualitative and quantitative approaches to problem definition, research design, data collection and analysis, interpretation and presentation of research results. Requires use of statistical software. Three hours lecture and two hours activity laboratory. Prerequisite: MKTG 605 or equivalent. (4 units)

**670. Global Marketing Strategies**

Advanced marketing strategies for developing global markets. Includes the emerging changes in international markets and their impact on general marketing strategies. Formerly a topic under MKTG 690. (4 units)



**686. Graduate Project**

Preparation of a graduate project under the direction of a faculty member, with the approval of the graduate director, and if an interdisciplinary study major, with the approval of the graduate program coordinator. Maximum of eight units applicable toward the M.B.A. or M.A. in Interdisciplinary Studies. Prerequisite: advancement to candidacy. (4-8 units)

**690. Advanced Topics in Marketing**

Intensive study of an advanced topic in marketing. May be repeated for credit as topics change. (4 units)

**696. Marketing Strategy**

A strategy planning approach to marketing management from conceptual and applications perspectives. Focus is on the strategic decision-making process supported by self-analysis and external analysis. Legal, ethical and international aspects are also considered. Prerequisites: MKTG 605 and at least four additional units of 500- or 600-level coursework in marketing and consent of instructor. (4 units)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

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**COURSE OFFERINGS IN  
SUPPLY CHAIN MANAGEMENT (SCM)**


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**575. Internship in Supply Chain Management**

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

**590. Seminar in Supply Chain Management**

An intensive study of some phase of supply chain management to be developed by the instructor. May be repeated for credit as topics change. Formerly MSCI 590. (4 units)

**595. Independent Study**

Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. Formerly MSCI 595. (2 or 4 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students. Students must be fully classified or have written consent of the college graduate director to enroll in graduate level courses.

**607. Managing the Supply Chain**

Integration and application of analytical techniques used in logistics and supply chain management. Concepts of decision models are examined for planning, control, forecasting, scheduling, and analysis within an enterprise. Formerly OM 607. Prerequisite: SCM 304. (4 units)

**611. Logistics and Supply Chain Management Strategies**

Development, implementation and integration of supply chain management and operations management strategy with business and other functional strategies of organization. Topics include: decisions involving positioning, structuring and managing for superior competitive performance. Formerly OM 611. Prerequisite: SCM 607. (4 units)

**614. Advanced Quality Management**

Technical and managerial issues for implementing total quality management in operations, supply chain and logistics. Topics include the management of quality planning, organizing, motivation and control; employee involvement teams for total quality; the quality of product design; management of quality and reliability; management of inspection and measurement. Formerly OM 614. Prerequisite: SCM 607. (4 units)

**615. Project Management**

Technical and managerial issues for implementing total quality Management. Topics include the management of quality planning, organizing, motivation and control; employee involvement teams for total quality; the quality of product design; management of quality and reliability; management of inspection and measurement. Formerly OM 615. Prerequisite: SCM 607. (4 units)

**650. Information Decision Systems**

Concepts, principles, practices and tools needed to support the management decision making process. Both static and dynamic models of information management related to decision making will be explored. Specific topics include risk management, incident handling, threat assessment, allocating resources and system certification. (Also offered as INFO 650. Students may not receive credit for both.) Formerly OM 650. Prerequisites: INFO 609 and SCM 607. (4 units)

**660. Transportation and Supply Chain Management**

Comprehensive study of managing transportation and the supply chain. Logistics of managing the pipeline of goods from initial contracts with suppliers and control of work-in-process to the movement of finished goods through the channels of distribution. Formerly OM 660. Prerequisite: SCM 607. (4 units)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

# CHEMISTRY

## Department of Chemistry and Biochemistry

Chemical Science Building, Room CS-204  
(909) 537-5318 <http://chem.csusb.edu/>

The following courses are offered in support of various graduate degree programs offered at this university.

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### COURSE OFFERINGS IN CHEMISTRY (CHEM)

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#### Upper-Division

##### 545. Instrumental Analysis (S-alt yr)

Principles and techniques of modern instrumental analysis, including spectrophotometry, spectroscopy, chromatography, X-ray analysis, mass spectrometry and potentiometry. Four hours lecture and six hours laboratory. Materials fee required. Prerequisites: CHEM 223 or 323, 345 and 452 or 456. (6 units)

##### 575. Internship in Chemistry (FWS)

Supervised work and study in applied chemistry in an on- or off-campus setting. Final written report may be required. May be repeated for credit with department consent. A total of four units may be applied towards obtaining a bachelors degree and a total of five units may be applied towards obtaining a masters degree. Graded credit/no credit. Prerequisites: course work appropriate to the specific internship and consent of department. (1-5 units)

#### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

##### 610. Advanced Environmental Chemistry

Overview of the chemistry and properties of the natural environment, and the effects of human activities thereon. Topics include the behavior of environmental pollutants in air, water, sediments/soils and their potential biological impacts; as well as a discussion of their sources and treatment. Concurrent laboratory studies of common methods used in environmental analyses. Four hours lecture and three hours laboratory. Prerequisites: one year of introductory work in chemistry including organic nomenclature e.g. CHEM 205, 206; or 215, 216, and any organic; or consent of instructor. Recommended: CHEM 345. (5 units)

##### 690. Graduate Seminar in Environmental Sciences

Selected topics and reviews of current investigations in the fields of environmental chemistry. Two hours seminar. (2 units)

##### 691. Graduate Independent Study

Independent study of an advanced topic in chemistry or environmental science. Prerequisite: classified standing in master's program and consent of instructor. (2-4 units)

##### 695. Supervised Graduate Study in Chemistry

Original individual research in environmental chemistry; to be conducted under the direct supervision of a faculty member of the student's committee, and if desired in collaboration with other members of the student's master's committee. Prerequisites: classified standing in master's program and consent of advisor. (4-5 units)

##### 697. Advanced Internship

Supervised work or study in private or public organizations. May be repeated for credit with consent of Environmental Science Graduate Committee. Prerequisites: CHEM 575 or GEOL 575 and consent of advisor. (4 units)

##### 698. Continuous Enrollment for Graduate Candidacy Standing

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

##### 699. Graduate Project or Thesis

Independent graduate project or research conducted under guidance of the major advisor culminating in a written project or thesis in satisfaction of the extended project option of the degree requirements. Prerequisite: CHEM 695 or GEOL 695. (4 units)

##### 999. Comprehensive Examination

Assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and good academic standing. (0 units)

# COMMUNICATION STUDIES

## Master of Arts in Communication Studies

Communication Studies Track  
Integrated Marketing Communication Track

### Certificate

Conflict Management

## Department of Communication Studies

University Hall, Room 018  
(909) 537-5815 <http://communication.csusb.edu>

**FACULTY:** Ece Algan, Mo Bahk (Chair), Nathan Carter, Rueyling Chuang, Risa Dickson, Mary Fong, Donna Gotch, Jo Anna Grant (Graduate Coordinator), Brian Heisterkamp, Heather Hundley, Fred Jandt, Robin Larsen, C. Rod Metts, Ahlam Muhtaseb, Bradford Owen, Mihaela Popescu, Scott Rodriguez

## MASTER OF ARTS IN COMMUNICATION STUDIES

### Requirements (47-50 units)

The M.A. in Communication Studies is designed for students who wish to advance from this degree to further graduate work and for those wishing to apply advanced communication perspectives, methodologies, and competencies in their careers. This program is unique in its distinct intercultural orientation, cultivating an understanding of national, racial, ethnic, gender and other cultural differences in a wide range of communication settings and activities. Students are encouraged to develop focused programs of study (e.g., organizational communication, media studies, communication education). Whatever focus the student may achieve, however, will be contextualized by an understanding and application of intercultural communication theory and practice.

### Admission to the Program

Students must fulfill all the general requirements for admission to graduate studies at this university. Applicants should take particular note of the graduate entrance writing requirement. The department welcomes applications from international students. Prospective international students should take particular note of university requirements regarding the TOEFL. Applications for admission to the program should be sent to the department graduate coordinator and must include:

1. A copy of the undergraduate transcript indicating graduation with a bachelor's degree from an accredited college or university and communication courses completed;
2. Three letters of recommendation attesting to academic aptitude and accomplishments;
3. A one-page essay describing life/career goals and the role the applicant sees this degree playing in accomplishing these goals.
4. Completion of the graduate entrance writing requirement.

Admission of students to the program will take one of two forms:

1. Regular Admission. In addition to the general requirements for admission to the university, specific requirements for admission to classified graduate status in this program are:
  - A. The equivalent of 24 quarter units of communication course work (students with less background may be required to complete selected undergraduate courses prior to admission to the program).  
Students pursuing the Integrated Marketing Communication track should complete sixteen units of undergraduate course-

work in communication and marketing to include:

- COMM 306. Communication Theory (4)
- COMM 341. Public Relations Theory and Principles (4)

May choose only one of the following two courses:

- COMM 400. Communication Research Methodologies (4)
- MKTG 416. Marketing Research (4)

- MKTG 305. Marketing Principles (4)
- MKTG 410. Consumer Behavior (4)

- B. An undergraduate grade point average of 3.0 overall and/or 3.0 for the last half of undergraduate course work.
  - C. International students must have a TOEFL score of 575 or higher.
2. Conditional Admission. Students who do not meet all the requirements for regular admission may, with the approval of the departmental graduate committee, be admitted on a conditional basis. Conditional admission provides students a trial period to demonstrate their ability. Conditionally admitted students must complete twelve units of course work at the 500- or 600-level with no grade lower than "B" in those courses. An overall grade point average of at least 3.0 is needed for elevation to classified graduate student status.

### Advancement to Candidacy

1. During the first quarter of enrollment, the student shall, with the consent of the faculty member chosen and the approval of the graduate coordinator, select an advisor.
2. Prior to completion of 16 units, the student and advisor shall form the student's graduate advisory committee. The committee shall consist of the advisor and two faculty members, one of whom may be from a related discipline. The committee shall function to: 1) approve the student's program of study; 2) compose and evaluate the student's comprehensive examination (if applicable); and 3) evaluate and approve the student's thesis or project (if applicable).
3. Upon establishing the committee, and prior to completion of 20 units, the student shall forward for the committee's approval a program of study listing course work to be taken and the capstone experience chosen to complete the degree.
4. Upon approval of the plan by the advisory committee, the program of study shall be sent to the graduate coordinator for departmental approval resulting in advancement to candidacy.

### Requirements for Graduation

1. Students must complete an approved program of 47 to 50 units with an overall grade point average of 3.0.
2. Students must receive a "B-" or higher in all required courses;
3. A minimum of 36 of these units must be at the 500- or 600-level.
4. No course may be counted for which a grade of "C-" or less was received.
5. The student is responsible for fulfilling all other requirements for graduation established by the Dean of Graduate Studies.

### Degree Requirements (47-50 units)

#### Communication Studies Track (47 units)

**Note:** Students must receive a grade of "B-" or higher in all required courses.

1. COMM 600. Introduction to Graduate Study (4)
2. COMM 601. Intercultural Communication Theories (4)
3. COMM 602. Quantitative Research Methods in Communication Studies (4)
4. COMM 603. Qualitative Research Methods in Communication (4)
5. COMM 685. Thesis or Project Proposal/Comprehensive Examination Preparation (2)

## 378 / Communication Studies

## 6. Electives (24-29 units)

The student shall, with the advice and approval of the advisory committee and the graduate coordinator, develop a program of study to fulfill the remaining unit requirements for the degree. The program should reflect some unifying theme. Graduate level courses among which the student may choose include:

- COMM 502. Communication Law and Policy (4)
- COMM 506. Media Sex and Violence (4)
- COMM 511. Feminist Contributions to Communication Theories (4)
- COMM 520. Integrated Marketing Communication (4)
- COMM 522. Mediation Theory and Practice (4)
- COMM 542. Issue Management and Crisis Communication (4)
- COMM 543. Environmental Communication (4)
- COMM 560. Health Communication (4)
- COMM 563. Advanced Topics in Public Argumentation and Rhetoric (4)
- COMM 564. Advanced Topics in Human Communication (4)
- COMM 565. Advanced Topics in Mass Communication (4)
- COMM 566. Advanced Topics in Intercultural Communication (4)
- COMM 567. Advanced Topics in Public Relations (4)
- COMM 580. Culture and Ethnicity in Language (4)
- COMM 581. Contemporary Theories of Rhetoric (4)
- COMM 593. Communication Approaches to Area Studies (4)
- COMM 609. Digital Culture (4)
- COMM 610. Media and Intercultural Relations (4)
- COMM 620. Communication in Multicultural Organizations (4)
- COMM 630. Instructional Communication (4)
- COMM 670. Seminar in Conflict and Conflict Resolution (4)
- COMM 671. International Communication (4)
- COMM 672. Intercultural Peacemaking (4)
- COMM 673. Advanced Mediation Skills (4)
- COMM 689. Practicum for Teaching Assistants in Communication Studies (1)
- COMM 690. Seminar in Organizational Communication (4)
- COMM 691. Seminar in Public Relations (4)
- COMM 692. Seminar in Interpersonal Communication (4)
- COMM 693. Seminar in Mass Communication (4)
- COMM 694. Seminar in Intercultural Communication (4)
- COMM 695. Graduate Independent Study (2-5)
- COMM 696. Practicum in Intercultural Living (2-5)
- COMM 697. Internship in Communication (2-5)

Students cannot apply any course previously applied to another degree or track. Students may, with the approval of the advisory committee and the graduate coordinator, substitute up to eight units of course work from a related discipline or disciplines.

## 7. Capstone Experience (0-5 units)

Students will choose one of the following capstone experiences to complete their program.

- COMM 686. Graduate Project (5)
- COMM 699. Thesis (5)
- COMM 999. Comprehensive Examination (0)

**Comprehensive Examination.** Students may, with the approval of their advisory committee, fulfill the capstone requirement through a comprehensive examination. The examination tests the student's mastery of perspectives and competencies in the core curriculum as well as those associated with the individual student's program of study. The examination will be developed and evaluated by the student's advisory committee, administered during the student's final quarter in residence, and carry **no academic credit**.

**Thesis.** Students may, with the approval of their advisory committee and the graduate coordinator, fulfill the capstone requirement

through developing and executing an original research project designed to extend or apply our understanding of communication in important and unique ways. The student shall make a public presentation of the prospectus for the thesis no later than two quarters before its completion. The prospectus must be approved by the advisory committee. The student will make a public defense of the thesis during the last quarter of residence. The completed thesis must be approved by the advisory committee and the Dean of the Graduate School. Students choosing this option must register for five units of COMM 699 in the quarter in which the thesis is to be defended.

**Project.** Students may, with the approval of their advisory committee and the graduate coordinator, fulfill the capstone requirement through developing and executing a project with a significant written component to be completed in conjunction with an internship. The project shall be developed among the student, the advisor, and an on-site internship supervisor. The written component of the project must follow specified guidelines, be approved by the advisory committee, and will be presented publicly during the student's last quarter in residence. The completed project must be approved by the advisory committee and the Dean of Graduate Studies. Students choosing this option must register for five units of COMM 686 in the quarter in which the internship is to be conducted.

**Integrated Marketing Communication Track (50 units)**

## Prerequisites (20 units)

- 1. COMM 306. Communication Theory (4)
- 2. COMM 341. Public Relations Theory and Principles (4)
- 3. Four units chosen from:
  - COMM 400. Communication Research Methodologies (4)
  - MKTG 416. Marketing Research (4)
- 4. MKTG 305. Marketing Principles (4)
- 5. MKTG 410. Consumer Behavior (4)

## Degree Requirements (50 units)

**Note:** Students must receive a grade of "B-" or higher in all required courses.

- 1. COMM 601. Intercultural Communication Theories (4)
- 2. COMM 605. Introduction to Graduate Studies in Integrated Marketing Communication (4)
- 3. COMM 691. Seminar in Public Relations (4)
- 4. Four units chosen from:
  - COMM 602. Quantitative Research Methods in Communication Studies (4)
  - COMM 603. Qualitative Research Methods in Communication (4)
  - 5. MKTG 605. Marketing Management (4)
  - 6. MKTG 610. Consumer and Organizational Buying Behavior (4)
  - 7. MKTG 620. Advertising Management (4)
  - 8. COMM 685. Thesis or Project Proposal/Comprehensive Examination Preparation (2)
- 9. Electives (15-20 units)

No more than eight elective units can be applied from courses taught outside of Communication Studies.

  - COMM 405. Mass Media Effects (4)
  - COMM 415. Advertising as Social Communication (4)
  - COMM 442. Public Relations Campaigns (4)
  - COMM 450. Audience Research and Analysis (4)
  - COMM 522. Mediation Theory and Practice (4)
  - COMM 542. Issue Management and Crisis Communication (4)
  - COMM 543. Environmental Communication (4)
  - COMM 560. Health Communication (4)
  - COMM 590. Advanced Topics in Public Relations (4)



- COMM 602. Quantitative Research Methods in Communication Studies (4)
- COMM 603. Qualitative Research Methods in Communication (4)
- COMM 609. Digital Culture (4)
- COMM 620. Communication in Multicultural Organizations (4)
- COMM 673. Advanced Mediation Skills (4)
- COMM 690. Seminar in Organizational Communication (4)
- COMM 695. Graduate Independent Study (2-5)
- COMM 697. Internship in Communication (2-5)
- INFO 609. Information Management Systems (4)
- MKTG 446. Advertising Campaign (4)
- MKTG 520. Integrated Marketing Communication (4)
- MKTG 525. Sports and Entertainment Marketing (4)
- MKTG 530. Strategic Entrepreneurship (4)
- MKTG 540. E-Marketing (4)
- MKTG 550. Advanced Sports Marketing Planning and Strategy (4)
- MKTG 555. Advanced Entertainment Marketing Planning and Strategy (4)
- MKTG 560. Services Marketing (4)
- MKTG 590. Seminar in Marketing (4)
- MKTG 640. Advanced Marketing Research (4)
- MKTG 670. Global Marketing Strategies (4)
- MKTG 690. Advanced Topics in Marketing (4)
- MKTG 696. Marketing Strategy (4)

Capstone Experience: (0-5 units)

Students will choose one of the following capstone experiences to complete their program with the advice of their advisory committee and the graduate coordinator. See category 7 in the Communication Studies Track for an explanation of these options.

- COMM 686. Graduate Project (5)
- COMM 699. Thesis (5)
- COMM 999. Comprehensive Examination (0)

### Graduate Assistantships

A limited number of graduate assistantships are available, on a competitive basis, for students who wish to pursue the degree full-time. Interested applicants should contact the graduate coordinator in the Department of Communication Studies for further information.

## CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or Extended Learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. See Page 58 for additional certificate information.

### Certificate in Conflict Management

This certificate can also be used by students in the Master of Business Administration and Master in Public Administration.

#### Admission to the Program

1. Post-baccalaureate standing.

#### Certificate Requirements (24 units)

1. COMM 522. Mediation Theory and Practice (4)
2. COMM 670. Seminar in Conflict and Conflict Resolution (4)
3. MGMT 645. Negotiation and Bargaining (4)
4. MGMT 646. Alternative Dispute Resolution and Third Party Intervention (4)

5. Eight units chosen from:
  - COMM 672. Intercultural Peacemaking (4)
  - COMM 673. Advanced Mediation Skills (4)
  - MGMT 642. Communication and Interpersonal Processes (4)
 May choose only one of the following two courses:
  - MGMT 644. Industrial Relations (4)
  - PA 557. Public Sector Labor Relations (4)

## COURSE OFFERINGS IN COMMUNICATION (COMM)

### Upper Division

#### 502. Communication Law and Policy

Exploration and application of laws and regulations as they affect communication. Includes consideration of freedom of speech, libel and slander, intellectual property, broadcast regulations and privacy. (4 units)

#### 506. Media Sex and Violence

Critical and empirical examination of the practices and consequences of portraying human aggression and sexuality in the mass media including television, movies, magazines, video games, and the Internet. Formerly a topic under COMM 365. (4 units)

#### 511. Feminist Contributions to Communication Theories

Examination of how diverse feminist theories contribute to an understanding of communication and rhetoric, integrating feminist theories with communication theories, and focusing on how gender distinctions influence our thinking and communication. Will explore diversity in feminism, including ethnicity, relational orientation, religion and class. Formerly a topic under COMM 584. (4 units)

#### 520. Integrated Marketing Communication

An integrated perspective on the process of communicating marketing messages to promote products, services, ideas, people, causes and events. Advertising, direct marketing, personal selling, public relations, and sales promotion strategies are explored with consideration given to global, ethical and technology-related issues. (Also offered as MKTG 520. Students may not receive credit for both.) (4 units)

#### 522. Mediation Theory and Practice

Exploration of the theories, methods, and techniques of mediation as a collaborative process of resolving conflicts among individuals, groups, organizations, and nations. Third party intervention skills needed to serve as a mediator are developed through simulation exercises. Formerly a topic under COMM 364. Prerequisite: COMM 422 or permission of instructor. (4 units)

#### 542. Issue Management and Crisis Communication

Principles and methods of issue evaluation and crisis management in public relations communication including issue monitoring, issue analysis, policy options, program design, evaluation, and identification. Prerequisite: COMM 344 or equivalent or consent of instructor. (4 units)

#### 543. Environmental Communication

Examination of communication involving environmental issues in national and international contexts. Emphasis is placed on the relationship between communication and environmental problems and issues. Formerly a topic under COMM 584. (4 units)

**560. Health Communication**

Advanced study of issues, contexts, and theories of health communication. Examines health issues in various communication contexts such as interpersonal, intercultural, organizational and mediated communication. Formerly a topic under COMM 364. Prerequisites: COMM 200 and 306 or consent of instructor. (4 units)

**563. Advanced Topics in Public Argumentation and Rhetoric**

Advanced special topics in public argumentation and rhetoric. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

**564. Advanced Topics in Human Communication**

Advanced special topics in human communication. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

**565. Advanced Topics in Mass Communication**

Advanced special topics in mass communication. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

**566. Advanced Topics in Intercultural Communication**

Advanced special topics in intercultural communication. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

**567. Advanced Topics in Public Relations**

Advanced special topics in public relations. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

**580. Culture and Ethnicity in Language**

Critical examination of the way language shapes perceptions, behaviors, and attitudes about culture and ethnicity. Prerequisite: COMM 304 or equivalent. (4 units)

**581. Contemporary Theories of Rhetoric**

Study of 20th century conceptualizations of rhetoric and intercultural communication with an emphasis on contemporary public discourse in different cultural settings. (4 units)

**591. Internship/Externship in Communication**

Supervised work and study of communication processes in private and public settings. A total of ten units in COMM 591 may be applied toward graduation. Graded credit/no credit. Prerequisites: junior or senior status with a minimum of 16 units of communication course work completed on this campus; minimum overall grade point average of 2.5; written consent from a supervising agency within which the internship will take place; departmental approval of a contract between the intern and the supervising agency to be filed prior to the quarter in which the course is to be taken. (2-5 units)

**593. Communication Approaches to Area Studies**

Examination of communication practices and issues within world regions and among cultural groups which may include the role of communication in political, economic, social and cultural conflict and change. May be repeated for credit as focus area changes. Prerequisite: COMM 304 or equivalent.

- A. Africa (4 units)
- B. Asia-Pacific (4 units)
- C. Europe (4 units)
- D. Latin America (4 units)

**595. Independent Study**

Special topics involving library research, experimental or field research, or media production. A total of 10 units in COMM 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0 ("B"), consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken, and junior or senior status. (2-5 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**600. Introduction to Graduate Study**

Theory building in communication research. The assumptions, methods, perspectives and theoretical frameworks for advanced research in communication studies. Recommended for first quarter of graduate study, must be taken within first year. (4 units)

**601. Intercultural Communication Theories**

Study of the relationship between culture and communication with emphasis given to an examination of current quantitative and interpretative theory and research. Implications and applications to various kinds of human relationships and various aspects of those relationships (e.g. interpersonal, organizational, national, international and mediated). Recommended for first quarter of graduate study, must be taken within the first year. (4 units)

**602. Quantitative Research Methods in Communication Studies**

Study, design, data collection, and appropriate multivariate procedures for research through behavioral/quantitative approaches. Emphasis on research conducted in multicultural settings. Extensive work designing research instruments and employing computerized statistical applications. Prerequisites: COMM 400 and 600, or consent of department. (4 units)

**603. Qualitative Research Methods in Communication**

Survey of study design, data collection and appropriate procedures for research through qualitative and interpretive approaches. Emphasis on research conducted in multicultural settings. Advanced study in such methods include ethnography, interviewing, discourse analysis, and rhetorical and cultural criticism. Prerequisite: COMM 600 or 605. (4 units)

**605. Introduction to Graduate Studies in Integrated Marketing Communication**

Theory building in integrated marketing communication research. The assumptions, methods, perspectives, theoretical frameworks and case study analysis for advanced research in communication studies, marketing and advertising. Recommended for first quarter of graduate study, must be taken within first year. (4 units)

**609. Digital Culture**

Examination of the interactions among communication technology, new media, and culture with particular focus on intercultural and global communication. Prerequisite: COMM 309 or consent of department. (4 units)

**610. Media and Intercultural Relations**

Focus on how media and intercultural communication shape one another, including the relationship between the public and private processes of technologically-mediated interaction, transformations in interpersonal relations, and the social construction of contemporary discourses and lifestyles. (4 units)

**620. Communication in Multicultural Organizations**

Study and analysis of communication patterns in multinational and multicultural organizational settings. Analysis of intercultural communication theories as sources of explanations and strategies for developing and managing a culturally diverse organization. (4 units)

**630. Instructional Communication**

Study of educational philosophies, models, approaches, and research in teaching communication, to include course design and student evaluation instruments with emphasis on application of instructional strategies in their teaching presentations. May not be taken in lieu of EDUC 603. (4 units)

**670. Seminar in Conflict and Conflict Resolution**

Survey course on the origins, history, models and theories of conflict and conflict resolution. Includes cultural issues, nonviolent social movements, and the developing field of online conflict resolution. (4 units)

**671. International Communication**

Advanced study of issues in international communication in the context of globalization. Examination of the political, economic and cultural impact of communication across national boundaries, including news, entertainment, advertising, corporate communication, trans-border data flows, and the Internet. (4 units)

**672. Intercultural Peacemaking**

Study of communication strategies for international and domestic peacemaking among diverse groups and interests. (4 units)

**673. Advanced Mediation Skills**

Application of selected mediation theories and skills such as group facilitation, group development, and language analysis. Prerequisite: COMM 522 or equivalent. (4 units)

**685. Thesis or Project Proposal/Comprehensive Examination Preparation**

Preparation of the thesis or project proposal, or preparation for comprehensive examination. Graded credit/no credit. Prerequisites: completion of 24 units in the program, advancement to candidacy, and consent of graduate coordinator. (2 units)

**686. Graduate Project**

Preparation of a graduate project under the direction of a faculty member, with the approval of the graduate director, and if an interdisciplinary study major, with the approval of the graduate program coordinator. Project proposals should be approved by the program coordinator in the quarter prior to enrollment in the course. Prerequisite: advancement to candidacy. (4-8 units)

**689. Practicum for Teaching Assistants in Communication Studies**

For students appointed as teaching assistants in communication studies. The course is designed to facilitate the development, refinement and maintenance of effective teaching methods and strategies. May be repeated for a total of three units. Graded credit/no credit. (1 unit)

**690. Seminar in Organizational Communication**

Intensive study of selected topics in organizational communication. May be repeated for credit as topics change. Prerequisite: COMM 421 or consent of department. (4 units)

**691. Seminar in Public Relations**

Intensive study of selected topics in public relations. May be repeated for credit as topics change. Prerequisite: COMM 341 or equivalent. (4 units)

**692. Seminar in Interpersonal Communication**

Intensive study of selected topics in interpersonal communication. May be repeated for credit as topics change. (4 units)

**693. Seminar in Mass Communication**

Intensive study of selected topics in mass communication. May be repeated for credit as topics change. (4 units)

**694. Seminar in Intercultural Communication**

Intensive study of selected topics in intercultural communication. May be repeated for credit as topics change. Prerequisite: COMM 304 or equivalent. (4 units)

**695. Graduate Independent Study**

Advanced reading/research on a specific topic relevant to the student's program of study. Prerequisite: approval by the student's committee. (2-5 units)

**696. Practicum in Intercultural Living**

Students will complete academic assignments based on, and during residence in a domestic or foreign community other than their own. Graded credit/no credit. Prerequisites: COMM 602 or 603, approval of student's committee; graduate level status with a minimum overall grade point average of 3.0. Student must secure a written agreement with a sponsoring agency and departmental approval of that agreement. (2-5 units)

**697. Internship in Communication**

Supervised work experience in which the student completes academic assignments integrated with off-campus paid or volunteer activities. Graded credit/no credit. A maximum of five units of credit in COMM 697 will be accepted toward the M.A. degree. Prerequisites: approval of student's committee; graduate level status with a minimum overall grade point average of 3.0 ("B"). Student must secure a written agreement with the supervising agency in which the internship will take place and departmental approval of that agreement. (2-5 units)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

**699. Thesis**

Independent graduate research culminating in a written thesis. Prerequisites: approval of prospectus by the student's advisory committee, advancement to candidacy, completion of all other required courses for the M.A. or consent of department. (5 units)

**999. Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of subject matter. Prerequisites: COMM 685, advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)



# COMPUTER SCIENCE

## Master of Science in Computer Science

### Department of Computer Science and Engineering

Jack Brown Hall, Room 307  
(909) 537-5326 <http://cse.csusb.edu/>

**FACULTY:** Richard Botting, Arturo Concepcion, George Georgiou (Chair), Ernesto Gomez, Dennis Ikenberry (Emeritus), Yasha Karant, Allan Knight, Josephine Mendoza (Coordinator), Owen Murphy, Haiyan Qiao, Keith Schubert, David Turner, Kerstin Voigt (Coordinator), Tong Yu, Kay Zemoudeh

## MASTER OF SCIENCE IN COMPUTER SCIENCE

### Requirements (45 units)

The Master of Science in Computer Science degree program provides a technically oriented postbaccalaureate scientific education for those who wish to acquire or extend their knowledge in the field of computer science. The program combines both the study of modern computer devices and their applications along with the study of the philosophical foundations which underlie the discipline.

In addition to the above goals and objectives, the program is also committed to improving the writing and communication skills of the student.

### Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. An acceptable score on the GRE (general examination only);
2. Three letters of recommendation;
3. Completion of the graduate entrance writing requirement;
4. A statement of purpose from the student; and
5. Either A or B below:
  - A. A baccalaureate degree in computer science;
  - B. A baccalaureate degree in a related field with a cumulative grade point average of "B" (3.0) or better with no grade lower than "C+" (2.3) in a selection of program preparatory courses including:
    1. The equivalent of a one-year sequence of "Introduction to Computer Science" courses, as defined by the ACM Curriculum Committee as courses CS1 and CS2. This can be satisfied by the successful completion of:

CSCI 201.	Computer Science I
CSCI 202.	Computer Science II
CSCI 330.	Data Structures
    2. Courses in calculus and discrete mathematics equivalent to:

MATH 211.	Basic Concepts of Calculus
MATH 212.	Calculus II
MATH 272.	Discrete Mathematics
    3. CSCI 598. Foundations of Computer Architecture (4)  
(Must be taken by students who did not have the equivalent of computer organization and architecture courses.)
    4. CSCI 599. Foundations of Software Systems (4)  
(Must be taken by students who did not have the equivalent of software engineering and operating system courses.)

### Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Secured a major advisor from the Department of Computer Science and Engineering for the preparation of the thesis or the implementation of a project;

3. Completed at least 12 quarter units and no more than 20 quarter units of work applicable to the degree program as a graduate student at this university with a minimum grade point average of 3.0 ("B");
4. Submitted a formal program of graduate study prepared in consultation with and approved by the Department of Computer Science and Engineering graduate committee and/or the major advisor. This program of graduate study should include an abstract to serve as a thesis research proposal for thesis option or a tentative title and description of the project for the project option, or enrollment in CSCI 689 for the exam option;
5. For students choosing the project option, satisfactory passage of the comprehensive oral examination to be administered by the graduate committee;
6. Obtained final approval of the program and of the candidacy itself by the Department of Computer Science and Engineering graduate committee and the Dean of Graduate Studies.

### Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work included in the formal program with 500- and 600-level courses in computer science. No more than eight units may be earned from 500-level courses;
2. Advancement to candidacy and approval of the specific program of study;
3. A public presentation for the thesis or project option;
4. Completion of a final oral examination concluded by acceptance of the thesis, for the thesis option; satisfactory completion of the comprehensive oral examination and completion of the project, for the project option; or satisfactory completion of the comprehensive written examination, for the examination option;
5. The program must be completed within a seven-year period. No more than seven years may elapse between the time of registration for the earliest course listed on the program and completion of all requirements for the degree;
6. A grade point average of at least 3.0 ("B") in all graduate course work fulfilling the requirements of the Master of Science in Computer Science and grades of "C" (2.0) or better in all courses in the program;
7. For the thesis option, the student will submit the written thesis in bound form to the department. For the project option, the student will submit the written software engineering documentation in bound form to the department;
8. The graduation writing requirement is met upon successful completion of term papers in the graduate courses taken by the student and the writing of the thesis or software engineering documentation of the project;
9. Any additional general requirements not cited above and listed on Page 350.

### Department Graduate Committee and Major Advisor

The Department of Computer Science and Engineering graduate committee consists of the graduate coordinators and two or more faculty members from the Department of Computer Science and Engineering. The committee has general supervision over the work of students progressing towards the master's degree and will determine whether students are adequately prepared for graduate study. Each new graduate student should consult with the graduate coordinator for advice in the selection of the appropriate program of graduate study.

Students enrolled in the thesis or project option must choose and be accepted by a major advisor prior to their advancement to candidacy and the initiation of a thesis or project. The major advisor in consultation with the student will develop a program of graduate study consisting of specific courses and an acceptable thesis abstract or project proposal based on the student's interest, abilities and preparation. The major advisor will direct this research.



The program of graduate study as well as any subsequent modification of the thesis or project are subject to the approval of the Department of Computer Science and Engineering graduate committee and the Dean of Graduate Studies.

Students enrolled in the exam option are advised by the graduate coordinator. The program of study for the exam option consists of declaring and choosing the exam option and may not be modified to the thesis or project option.

### Thesis Preparation, Presentation and Examination

The student must conduct a research study, and from these efforts, write a thesis acceptable to the student's thesis committee and the Dean of Graduate Studies. The student's thesis committee shall be chaired by the major advisor and two other faculty members who are chosen by the student upon consultation with the major advisor and the graduate coordinator. The thesis topic and major advisor must be included on the program of graduate study submitted with the application to candidacy, although this may be amended.

The student shall enroll in CSCI 699 at a rate of two to six units per quarter for all contiguous academic year quarters starting from the time of advancement to candidacy until the thesis is completed and accepted. Over that period, nine units of CSCI 699 will count toward the degree.

The student, upon completion of the thesis, must give a public presentation of the research and stand for the defense of the thesis before the faculty made up of the thesis committee and any other faculty members who wish to attend. The student is given a maximum of five years from the time the student was advanced to candidacy to finish the degree.

### Project Preparation, Presentation and Examination

The student must implement and complete a project acceptable to the student's project committee and the Dean of Graduate Studies. The student's project committee shall be chaired by the major advisor and two other faculty members who are chosen by the student after consultation with the major advisor and the graduate coordinator.

The project topic and major advisor must be included on the program of graduate study submitted with the application to candidacy, although this may be amended.

The student shall enroll in CSCI 690 at the rate of two to five units per quarter for all contiguous academic quarters starting from the time of advancement to candidacy until the project is completed and accepted. Over that period, five units of CSCI 690 will count toward the degree.

The student, upon completion of the project, must give a public presentation. The student is given a maximum of five years from the time the student was advanced to candidacy to finish the degree.

### Comprehensive Written Examination

The student shall enroll in CSCI 689 after consultation with the graduate coordinator and completion of the last core course(s). CSCI 689 is an independent study course in preparation of the comprehensive examination and may be repeated only once. Students enrolled in CSCI 689 must take and pass a written examination on the material in the core courses.

### Degree Requirements (45 units)

1. CSCI 600. Formal Languages and Automata Theory (4)
2. CSCI 610. Modern Computer Architecture (4)
3. CSCI 630. Theory of Algorithms and Their Analysis (4)
4. CSCI 655. Software Engineering Concepts (4)
5. CSCI 660. Operating Systems Concepts and Theory (4)
6. Twenty-five units from one of the following options:
  - A. Examination Option
    1. CSCI 689. Comprehensive Examination (1)
    2. Twenty-four units of elective coursework chosen from 500- to 600-level computer science courses deemed appropriate by

the department graduate committee. Up to eight units of 500-level computer science courses may be taken.

- B. Project Option
  1. CSCI 690. Master's Project (5)
  2. Twenty units of elective coursework chosen from 500- to 600-level computer science courses deemed appropriate by the department graduate committee. Up to eight units of 500-level computer science courses may be taken.
- C. Thesis Option
  1. CSCI 699. Thesis (9)
  2. Sixteen units of elective coursework chosen from 500- to 600-level computer science courses deemed appropriate by the department graduate committee. Up to eight units of 500-level computer science courses may be taken.

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## COURSE OFFERINGS IN COMPUTER SCIENCE (CSCI)

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### Upper Division

#### 500. Introduction to Formal Languages and Automata (W)

Introduction to formal language theory. Finite state machines, regular grammars, context-free grammars, context-sensitive grammars, push-down automata, closure properties. Prerequisite: CSCI 331 or consent of instructor. (4 units)

#### 510. Advanced Computer Architecture (W)

High performance computer architectures and algorithms including pipeline, vector, array, multi-processor computer designs, applications, and programming. Also covered are data flow and systolic machines, interconnection networks, and graph and parallel graph algorithms. Formerly CSCI 410. Three hours lecture and two hours laboratory. Prerequisite: CSCI 401. (4 units)

#### 511. Expert Systems

Expert systems components, problems and applications. Knowledge bases, inference "engines," and their integration within expert systems. Tools for building expert systems, system algorithms as related to hardware, implementation languages and examples of systems in operation. Prerequisite: CSCI 330. (4 units)

#### 512. Introduction to Artificial Intelligence (W)

Problems and issues of artificial intelligence, current techniques and methods, and future prospects of machine intelligence. Three hours lecture and two hours activity laboratory. Formerly CSCI 411. Prerequisite: CSCI 330. (4 units)

#### 513. Advanced Artificial Intelligence (S)

Advanced issues and techniques in artificial intelligence; intelligent agents for problem solving, reasoning and learning; advanced artificial intelligence programming in LISP. Three hours lecture and two hours activity laboratory. Prerequisite: CSCI 512 or consent of instructor. (4 units)

#### 515. Automated Reasoning (F)

Study of deduction algorithms for expert systems and the limitations thereof, propositional calculus, quantification theory, completeness and incompleteness theorems, Hebrand-Godel computability, resolution principle, equality and inequality relations. Prerequisite: CSCI 431. (4 units)

**520. Advanced Computer Graphics (S)**

Advanced computer graphics concepts, theory and implementation techniques. Topics include shading models, parametric curves and surfaces, hidden edge and surface removal, and anti-aliasing. Prerequisites: CSCI 420. (4 units)

**521. Field Programmable Gate Array Design**

FPGA design rules, timing, latency, optimizations, ASIC conversion, state machines, implementing arithmetic, counters, memory, error detection and correction, simulation, and layout. Materials fee required. Three hours lecture and three hours laboratory. Prerequisite: CSCI 401. (4 units)

**524. Supercomputing and Visualization (F)**

Design and implementation of scientific applications on high performance computers emphasizing graphics and visualization techniques. Topics include parallel algorithm development, multiprocessor and multicomputer programming, and real-time visualization programming of computationally intensive problems in the sciences. Prerequisite: CSCI 202 or consent of instructor. (4 units)

**525. Parallel Algorithms and Programming (S)**

Topics include algorithm design, analysis, and programming of high performance computers. Also covered are control-parallel versus data-parallel approaches, PRAM algorithm design, and selected parallel programming languages. Four hours lecture. Prerequisite: CSCI 401. (4 units)

**530. Data Communications and Networks (F)**

Topics include baseband and broadband signals and modulation schemes. Error detecting and correcting codes, ISO protocol standard, packet switching and various local network schemes. Three hours lecture and two hours activity laboratory. Formerly CSCI 430. Prerequisites: CSCI 313 or 498 and 330. (4 units)

**531. High Performance Networks**

High performance network methodologies. Methods to develop network performance measures and models. Introduction to path cost estimation and service reliability issues. Three hours lecture and two hours laboratory. Formerly a topic under CSCI 594. Prerequisite: CSCI 530 or consent of instructor. (4 units)

**535. Numerical Computation**

Introduction to scientific computing. Algorithms related to approximations, zero findings, numerical differentiation and integration, data fitting and interpolation, nonlinear equations. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: senior standing or consent of instructor. (4 units)

**540. System Simulation (F)**

Theory and implementation of computerized modeling. Examples will include administrative, physical and biological systems. Prerequisite: CSCI 330 or consent of instructor. (4 units)

**546. Introduction to Theory of Computation (S)**

Deterministic and non-deterministic Turing machines, decidable and undecidable problems, complexity classes P and NP. Formerly CSCI 505. Prerequisite: CSCI 431. (4 units)

**550. Advanced Bioinformatics I: Sequence Analysis**

Pairwise and multiple sequence alignment of strings and relations to biology. Building phylogenetic trees from sequences. Predicting and analyzing RNA secondary structure. Three hours discussion and two hours activity. Prerequisites: CSCI 431 and senior standing or consent of instructor. (4 units)

**551. Advanced Bioinformatics II: Numerical Modeling**

Numerical techniques for the modeling and simulation of biological and chemical systems using ordinary and partial differential equations, and stochastic variables. Three hours discussion and two hours activity. Prerequisite: CSCI 535. (4 units)

**556. Introduction to Formal Methods, Models and Languages (W)**

Applications of logic and mathematics in documenting problems, requirements, specifications, designs, and software. Formal modeling languages. Diagrammatic, algebraic, and tabular models. Model checking. Students prepare, check, and present models using techniques in the literature. (Also offered as CSCI 656. Students may not receive credit for both.) Three hours lecture and two hours activity laboratory. Prerequisites: CSCI 320 and 330. (4 units)

**565. Systems Programming (W)**

Concepts of, and implementation techniques for systems software such as assemblers, editors, interpreters, linkers, loaders and operating systems. Prerequisite: CSCI 460. (4 units)

**570. Compilers (S)**

Interpreter and compiler structures. Topics include symbol tables, lexical and syntactic scanners, and object code generation. Three hours lecture and two hours activity laboratory. Prerequisites: CSCI 313, 320 and 330. (4 units)

**572. Database Systems (F)**

Basic concepts of database design and theory, including underlying storage structures and alternative approaches to database models (relational, object-relational, network and hierarchical). Hands-on applications with one or more commercial database management systems. Three hours lecture and two hours activity laboratory. Materials fee required. Formerly CSCI 480. Prerequisite: CSCI 330. (4 units)

**575. Internship in Computer Science**

Supervised work and study in private or public organizations. Graded credit/no credit. Prerequisite: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (4 units)

**580. Advanced Database Systems (W)**

Advanced study of components of general database systems and other topics such as implementation methods, query language design, reliability, integrity, performance measures, distributed database systems and database machines. Three hours lecture and two hours activity laboratory. Prerequisite: CSCI 572. (4 units)

**594. Topics in Computer Science (S)**

An in-depth consideration of selected areas of computer science. May be repeated for credit as topics change. Prerequisite: CSCI 431 (or 331) or consent of instructor. (4 units)

**595. Independent Study**

Laboratory and/or library research conducted under the direction of a faculty member. A total of four units in CSCI 595 may be applied toward the computer science, computer systems, computer engineering, and bioinformatics majors. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-4 units)

**598. Foundations of Computer Architecture (FS)**

Boolean algebra and logic gates; combinational and sequential logic; processor design; data path design; control design; memory organization; and system organization. May not be counted as upper-division elective units for the B.S. in Computer Science, B.A. in Computer Systems, B.S. in Computer Engineering, or B.S. in Bioinformatics. Prerequisites: CSCI 202, MATH 272, and consent of instructor. (4 units)

**599. Foundations of Software Systems (W)**

Software development process which includes software life-cycles, software techniques and technologies used to produce large software systems; operating systems including processes, input/output, memory management, and file systems. May not be counted toward the B.S. in Computer Science, B.A. in Computer Systems, B.S. in Computer Engineering, or B.S. in Bioinformatics. Prerequisites: CSCI 330 and consent of instructor. (4 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**600. Formal Languages and Automata Theory (W)**

Formal models in computer science including context free grammars, finite automata, regular expressions, pushdown automata and Turing machines. May not be taken for credit by students who have received credit for CSCI 500. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

**610. Modern Computer Architecture (W)**

Study of the elements and construction of advanced computer systems, including parallel systems, vector processors, network scheduling, neural networks, pipelining, array processors, and systolic arrays. May not be taken for credit by students who have received credit for CSCI 510 (or 410). Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

**611. VLSI Circuit Design (F)**

Fundamental design techniques for Very Large Scale Integrated (VLSI) circuits; physics of semi-conductor devices; design rules and circuit layouts; use of computer-aided design tools for design, layout and testing. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

**620. Programming Languages Theory (W)**

Theory of programming languages, including implementation details, the required machine and data structures needed for user interfaces, coded parallelism, distributed processing facilities, functional and object oriented programming languages. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

**621. Contemporary Computer Graphics (S)**

Theory and practice of modern graphics techniques. Topics include 3-D modeling, interaction, ray tracing, object representation, visualization, and animation techniques. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

**624. Distributed Computer Systems (F)**

Open Systems Interconnection (OSI) transport, presentation and application layers; distributed control; access methods; reliability; heterogeneity; resilience; applications in network operating systems, distributed operating systems and distributed database systems. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

**625. Multiprocessor and Parallel Processing (S)**

Tightly and loosely coupled multiprocessors; interconnection network; parallel programming languages; scheduling; problem decomposition; operating systems; performance; synchronization and communication; user-interface and programming environment; multiprocessor machine programming. May not be taken for credit by students who have received credit for CSCI 525. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

**630. Theory of Algorithms and Their Analysis (S)**

Algorithmic techniques, algorithm construction, algorithmic time and space complexities, properties of algorithms' taxonomic classes; survey of processing algorithms for graphs, trees, sets, and sequences; algebraic, numeric and geometric analysis techniques. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

**631. Advanced Data Communications (W)**

Topics include high bandwidth networks, formal models of network performance, traffic and congestion control, formal routing theory, quality of service, and internet protocol suite adaptations to high bandwidth networks. May not be taken for credit by students who have received credit for CSCI 531. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: CSCI 530 or consent of instructor. (4 units)

**634. Neural Networks (F)**

Theory and applications of neural networks; current developments; perceptrons; Hopfield networks; self-organizing mappings and content-addressable memories; multi-layer networks. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

**635. Numerical Algorithms and Simulation**

Scientific computing and simulation. Systems of linear equations, linear least squares, backward error analysis and numerical stability, stiff equations, simulation, sparse matrices. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: CSCI 535 or equivalent. (4 units)

**640. Artificial Intelligence (S)**

Knowledge representations; heuristics; theory of problem solving; adaptive systems; natural language understanding; automatic theorem proving; learning and robotics systems. Three hours lecture and two hours laboratory. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

**646. Theory of Computation (S)**

Theoretical foundations of computer science; models of computation; recursive functions; Church's thesis and undecidable problems; complexity classes P, NP, CO-NP and PSPACE. May not be taken for credit by students who have received credit for CSCI 546 (or 505). Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

**655. Software Engineering Concepts (F)**

Analyses of software requirements definitions, software systems design, implementation issues, verification and validation, and software maintenance techniques; rapid prototyping procedures; operational and transformational paradigms of software development; software engineering models and CASE tools including reverse engineering and module reusability concepts; applications in object-oriented programming languages. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)



**656. Formal Methods, Models and Languages (W)**

Applications of logic and mathematics in documenting problems, requirements, specifications, designs, and software. Formal modeling languages. Diagrammatic, algebraic, and tabular models. Model checking. Students prepare, check, and present models using techniques in the literature for a research paper. Students may not receive credit for both CSCI 556 and 656. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: classified status. (4 units)

**657. Structured Systems Analysis and Design (W)**

Systems life cycle; function and data flows; entity-relationship models; objects and life histories; requirements specification and prototypes; conceptual, essential logical, and physical designs. Three hours lecture and two hours laboratory. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

**660. Operating Systems Concepts and Theory (S)**

Operating system concepts and scheduling practices, including memory management, virtual machine architectures, job and task scheduling, multitasking, interrupt handling, message passing, multiprocessing, resource sharing, file systems and peripherals access scheduling; distributed processing environments and parallel processing facilities. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

**670. Compiler Design Theory (S)**

Compiler design for block structures, general purpose programming languages; automatic generation of lexical analyzers and parsers; error detection and correction; code optimization. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

**671. Advanced Compilers (F)**

Intermediate code generation, optimization, object code generation and architecture and optimized compiler co-design. Prerequisite: graduate standing in computer science or consent of instructor. An introductory course in compilers is recommended. (4 units)

**680. Distributed Database Management Systems (W)**

Distributed database issues including methods of data distribution, types of remote database access, concurrency management, extensions to Structured Query Language (SQL) for remote databases, co-operative processing, database machines and intelligent databases. May not be taken for credit by students who have received credit for CSCI 580. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

**689. Comprehensive Examination**

Unsupervised study in preparation of the comprehensive examination. Topics include the material covered in the core courses: formal language and automata theory, computer architecture, algorithms, software engineering, and operating systems. May be repeated only once. Graded credit/no credit. Prerequisites: CSCI 600, 610, 630, 655, 660 and consent of graduate coordinator. (1 unit)

**690. Master's Project**

Independent graduate project conducted under the guidance of a major advisor; total of at least five units of CSCI 690 must be taken in contiguous quarters. Prerequisites: advancement to candidacy and consent of department major advisor. (2-5 units)

**695. Graduate Independent Study**

Independent graduate research in computer science. A total of four units in this course may be applied toward the M.S. degree. Prerequisites: graduate standing in computer science, consent of instructor, and approval of a written proposal of the research by the department graduate program coordinator. (2-4 units)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

**699. Thesis**

Independent graduate research conducted under the guidance of a major advisor; total of at least nine units for CSCI 699 must be taken in contiguous quarters. Prerequisites: advancement to candidacy and consent of department major advisor. (2-6 units)



# COUNSELING AND GUIDANCE

## Master of Science in Counseling and Guidance

Faculty Office Building, Room 249  
(909) 537-5606 <http://www.csusb.edu/coe/>

**FACULTY:** Tina Besley, Susan Brotherton, Camille Mayers,  
Dwight Sweeney, John Winslade

### MASTER OF SCIENCE IN COUNSELING AND GUIDANCE

#### Requirements (72 units)

The M.S. in Counseling and Guidance is a professional program preparing students to become educational counselors. The degree program is designed to fulfill all the California State requirements for counseling in grades K-12, so that a graduate will concurrently receive the M.S. and the California Pupil Personnel Services Credential.

#### Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. Attend an Educational Counseling Program admission orientation meeting (call the Department of Educational Psychology and Counseling for orientation schedule);
2. Submission of an Admissions Portfolio following criteria and guidelines provided at the orientation meetings. Portfolios will be evaluated in accordance to the Educational Counseling program portfolio rubric, student will be notified as to their status to enroll in ECLG 531. Completed portfolio contains:
  - a. Application and current vitae/resume;
  - b. Transcripts of all higher education coursework;
  - c. Written Personal Statement;
  - d. Three positive recommendations from persons having knowledge of applicant's counseling potential (forms provided by program);
  - e. Proof of successful completion of the CBEST;
  - f. Evidence of current negative TB skin test;
  - g. Evidence of possession of a valid California teaching credential or a Certificate of Clearance for eligibility to participate in fieldwork;
  - h. Completion of EDUC 306 (or its equivalent) with a grade of "B" or better (fulfills the graduate entrance writing requirement);
  - i. Evidence of technological literacy in six areas: word processing, database, computer presentation, downloading, internet and email;
3. Completion of ECLG 531 with a grade of "B" (3.0) or better. Must be taken concurrently with EDUC 607.

Upon completion of the above requirements, the student's file will be reviewed by an admission committee composed of at least three members of the Educational Counseling faculty. This committee will evaluate the admission folder and decide on the student's admission status. Students who do not meet admissions criteria will be notified of their deficiencies.

#### Advancement to Candidacy

In order to be formally advanced to candidacy a student must have:

1. Achieved classified graduate standing;
2. Completed 20 quarter units of coursework with a grade point average of 3.0 ("B"), to include ECLG 619, 654 and 656;

3. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with a program advisor and approved by the program coordinator.

#### Requirements for Graduation

1. A minimum of 72 quarter units of graduate-level work, with a minimum of 54 units completed in residency at this university;
2. A minimum of 25 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the degree requirements, including a minimum of a "B" in ECLG 531 and 657A, a grade of "Credit" in ECLG 657B, and no grade below a "C" (2.0) in all other courses in the program;
4. The graduation writing requirement is met through demonstrated competence by completion of the Student Outcome Assessment Professional Portfolio;
5. Completion of a graduation requirement check;
6. Any additional requirements not cited above and listed on Page 350.

The comprehensive examination is designed to test the student's knowledge of the field of counseling and guidance. The examination is a standardized national exam, the Counselor Preparation Comprehensive Examination (CPCE). The student will take the examination during the fourth fieldwork Experience course. The student must be advanced to candidacy one quarter before taking the comprehensive examination. The student must complete a graduation check with the Office of Records, Registration and Evaluations before permission to take the examination can be granted. Students who do not receive a passing score may petition the College of Education to retake the examination. Students who do not receive a passing score the second time must petition the Dean of Graduate Studies to retake the exam. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

The program may not include more than 18 quarter units in extension and transfer credit from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Prerequisite courses:

1. ECLG 531. Introduction to Counseling (4)  
**Note:** Must be taken concurrently with EDUC 607.
2. EDUC 306. Expository Writing for Education (4) or its equivalent

#### Degree Requirements (72 units)

1. EDUC 607. Introduction to Educational Research (4)
2. ECLG 619. Appraisal Procedures in Counseling (4)
3. ECLG 632. Advanced Psychological Foundations of Education (4)
4. ECLG 633. Advanced Study in Child and Adolescent Development (4)
5. ECLG 650. Applied Career Counseling (4)
6. ECLG 651. Professional School Counselor (4)
7. ECLG 654. Legal and Ethical Issues in Counseling and Guidance (4)
8. ECLG 655. Multicultural Counseling (4)
9. ECLG 656. Counseling Theories and Techniques (4)
10. ECLG 657A. Counseling Practicum (4)
11. ECLG 657B. Counseling Practicum (4)
12. ECLG 658. Consulting with Parents and Staff (4)
13. ECLG 672. Leadership, Advocacy and Preventive Education in Counseling (4)
14. ECLG 678. Theory and Practice in Group Counseling (4)
15. ECLG 679A. Counseling Field Experience: Multicultural (4)

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16. Twelve units chosen from:

- ECLG 679B. Counseling Field Experience: Elementary School (4)  
ECLG 679C. Counseling Field Experience: Middle School (4)  
ECLG 679D. Counseling Field Experience: High School (4)  
ECLG 679E. Counseling Field Experience: Educational Institution (4)

17. ECLG 999. Comprehensive Examination (0)

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**COURSE OFFERINGS IN  
EDUCATIONAL COUNSELING (ECLG)**

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**Upper Division****531. Introduction to Counseling**

Experience-based introduction to counseling and its techniques. This course cannot be counted among the 72 units required in the Master of Science in Counseling and Guidance. Must be taken concurrently with EDUC 607 for students in the M.S. in Counseling and Guidance and the Pupil Personnel Services Credentials. Prerequisite: approval of admission portfolio. (4 units)

**536. Social-Emotional Development of the Gifted and Talented**

Social, emotional and related educational needs of gifted and talented children and youth. (4 units)

**542. Seminar in Educational Counseling**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-4 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**619. Appraisal Procedures in Counseling**

Individual and group measurement techniques, behavior observation skills, test interpretation, rights and responsibilities of test takers and administrators, and an introduction to personality, aptitude, achievement and career interest measurements. Prerequisites: ECLG 531 with a grade of "B" (3.0) or better and EDUC 607 for students in the M.S. and P.P.S. credential program. (4 units)

**632. Advanced Psychological Foundations of Education**

Focuses on the interaction of the learning-teaching process. Emphasis on pertinent learning theories of general and special education individual differences in capacities and development of learners, and evaluation of learning and instructional models. Particular attention will be paid to the education of learners with exceptionalities and inclusive classrooms. Theories of motivation and research findings with specific relevance to learning process and human development within the context of educational psychology will be examined. Special attention will be paid to positive behavior interventions and principles of classroom management. Includes 30 hours of practica. (4 units)

**633. Advanced Study in Child and Adolescent Development**

Recent contributions in research, practical experimentation, or theory which have important bearing upon the problems of human development; the significance of the developmental approach in working with children and youth and their impact throughout the life-span. Topics will include cognitive, social, and personality development, and will examine biological, environmental, and family influences. Prerequisites: ECLG 531 and 632. (4 units)

**647. Individual Testing and Case Study Techniques I**

Intensive practice in administration and interpretation of the Wechsler Scales: Wechsler Preschool and Primary Scale of Intelligence, Wechsler Adult Intelligence Scale and Wechsler Intelligence Scale for Children Revised. Three hours lecture and four hours practica. Materials fee required. Prerequisite: ECLG 619 or equivalent. (5 units)

**648. Individual Testing and Case Study Techniques II**

Intensive practice in administration and interpretation of Stanford-Binet, memory scales, cognitive processing scales, and selected personality measures with attention to integration of results in case studies. Three hours lecture and four hours practica. Materials fee required. Prerequisite: ECLG 647. (5 units)

**649. Ecological Assessment and Case Study Techniques**

Curriculum-based and play-based authentic assessment techniques. Use of ecological and alternative methods of assessing students and their needs. Three hours lecture and four hours practica. Materials fee required. Prerequisites: ECLG 647 and 648. (5 units)

**650. Applied Career Counseling**

Overview of career counseling, career education and application of career counseling and guidance to schools, educationally related agencies and special settings. Prerequisites: ECLG 531 and 619. (4 units)

**651. Professional School Counselor**

Theory and practical applications of comprehensive school counseling programs at the elementary, middle, and high school levels. Experience-based approach to program management and guidance curriculum development. (4 units)

**654. Legal and Ethical Issues in Counseling and Guidance**

Legal and ethical constraints and considerations in the school counseling profession. (4 units)

**655. Multicultural Counseling**

Theory of and practical applications of counseling skills to serve multiethnic school populations. Analysis of differing socioeconomic, racial, and social backgrounds of students. (4 units)

**656. Counseling Theories and Techniques**

Theories and techniques of counseling; application to educational settings; experiential orientation. Prerequisite: ECLG 531. (4 units)

**657. Counseling Practicum**

- A. I. Supervised practice in the application of counseling skills, theories and techniques. Includes 30 hours of practica. Prerequisites: ECLG 531; 631 or EREH 652. (4 units)  
B. II. Supervised practice in counseling in a laboratory setting. Includes 30 hours of practica. Graded credit/no credit. Prerequisite: ECLG 657A with a grade of "B" or better. (4 units)

**658. Consulting with Parents and Staff**

Theory and methods of consultation and theory with parents, teachers, and administrators and theory and methods of the supervision process. Prerequisite: ECLG 657B. (4 units)

**660. Seminar in Child/Adolescent Psychopathology and Treatment**

Interdisciplinary approach to understanding abnormal child development within the context of multicultural settings. Use of taxonomical approach including IDEA (Individuals with Disabilities Education Act) and DSMIV (Diagnostic Statistical Manual IV) and standard treatment protocol. Prerequisite: completion of introductory course in child development or equivalent. (4 units)

**672. Leadership, Advocacy, and Preventive Education in Counseling**

The importance and function of leadership, student advocacy, and the role of "change agent" by pupil personnel service providers. The planning, implementation and evaluation of school counseling and guidance programs that increase student learning and achievement. Prerequisite: ECLG 657B. (4 units)

**678. Theory and Practice of Group Counseling**

Theories and techniques of group counseling in educationally-related institutions. Experientially-based. Includes 30 hours of practica. Prerequisites: ECLG 531; 632 or EREH 652; ECLG 656; and 657A or 657B. (4 units)

**679. Counseling Field Experience**

Field practice with direct pupil contact (minimum 150 hours) in an educational setting under supervision of certificated personnel. Graded credit/no credit.

- A. Multicultural. Prerequisites: ECLG 655, 656 and 657B. (4 units)
- B. Elementary School. May be repeated for credit. Prerequisites: ECLG 657B and 679A. (4 units)
- C. Middle School. May be repeated for credit. Prerequisites: ECLG 657B and 679A. (4 units)
- D. High School. May be repeated for credit. Prerequisites: ECLG 657B and 679A. (4 units)
- E. Educational Institution. May be repeated for credit. Prerequisites: ECLG 657B and 679A and consent of instructor. (4 units)

**686. Seminar in Counseling of Children and Parents**

Study of theories and techniques in counseling with parents and children. Emphasis on methodology and application of counseling skills. Prerequisite: pupil personnel services credential. (4 units)

**687. School Psychologists as Change Agents: Theory and Practice**

Organizational models, systems analysis, powers and change theories and strategies as applied to educational institutions. Includes 20 hours of practica. Prerequisite: pupil personnel services credential. (4 units)

**688. Advanced Behavioral Intervention and School Consultation**

Examination of the central elements of behavioral intervention including monitoring progress of intervention which is empirically validated. Incorporates behavioral as well as systems consultation models. (4 units)

**689. Seminar/Internship in School Psychology**

Weekly seminar in the theory and practice of school psychology supervision, with emphasis on case presentation. Total of 1200 hours (in either paid or unpaid positions) in a supervised setting. Two hours lecture, plus internship hours. May be repeated for credit. Graded credit/no credit. Materials fee required. Prerequisites: ECLG 649, 660, and 687.

- A. (4 units)
- B. (4 units)
- C. (4 units)
- D. (4 units)

**693. Special Topics in School Psychology**

Selected topics in school psychology, such as professional issues, ethics and current practices, applicable State Education Codes and court decisions, use of community resources; in-service training theory and practicum. May be repeated for credit as topics change. Prerequisites: ECLG 649, 660 and 687. (4 units)

**696. Special Topics in Counselor Education**

Relevant issues in counselor education. May be repeated for credit as topics change. (2 units)

**999. Comprehensive Examination**

Assessment of the student's knowledge of the eight common core areas (standards) related to the field of counseling as designated by the California Commission on Teacher Credentialing: human growth and development, social and cultural foundations, helping relationships, group work, career and lifestyle development, appraisal, research and program evaluation and professional orientation and ethics. Graded credit/no credit. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

# CRIMINAL JUSTICE

## Master of Arts in Criminal Justice

### Department of Criminal Justice

Social and Behavioral Sciences Building, Room 209  
(909) 537-5506 <http://criminaljustice.csusb.edu/>

**FACULTY:** Gisela Bichler, Frances Coles, John Conley, Christine Famega, Larry Gaines (Chair), Brian Levin, Deborah Parsons, Andrea Schoepfer, Pamela Schram (Graduate Coordinator), Dale Sechrest, Stephen Tibbetts, John Worrall

## MASTER OF ARTS IN CRIMINAL JUSTICE

### Requirements (45 units)

The Master of Arts in Criminal Justice is designed to serve the growing number of individuals in the criminal justice system who desire postbaccalaureate education, as well as those in more traditional public and private employment who may wish to acquire further education in criminal justice.

The degree program offers two options. One is a thesis option designed for students who intend to pursue graduate studies beyond the M.A. level and those students who have special research interests in the criminal justice system. The examination option is for those with administrative and management goals.

The program can serve a variety of student interests. It has been designed with a limited prerequisite requirement to enable students with baccalaureate degrees in related fields such as psychology, administration, anthropology, sociology or social sciences to enroll along with students with undergraduate degrees in criminal justice.

The program is intended for evening students primarily and, therefore, classes will be predominately scheduled between 4 p.m. and 10 p.m.

### Admission to the Program

The Graduate Committee cannot act on applications until they have been reviewed by the Office of Admissions and Student Recruitment and have met university admissions requirements. Completed applications for admission must be received by the graduate coordinator by April 1.

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college or university;
2. Completion of an undergraduate major in criminal justice, criminology, sociology, or in an allied field such as psychology, administration, or another social science, or recommendation for admission to the program by the Graduate Admissions Committee. Competence in the following prerequisite areas: criminological theory, law enforcement, institutional and community corrections, research methods and statistics is expected;
3. Completion of the graduate entrance writing requirement;
4. A minimum undergraduate grade point average of at least 3.0 overall and 3.0 ("B") in the major;
5. Submission of any available GRE or MAT (Miller Analogies Test) scores, in the event the applicant feels that such scores would enhance their chances of admission. Submission of such scores is not mandatory;
6. Submission to the criminal justice program of three letters of recommendation from individuals who are familiar with the student's academic work and potential to complete the program successfully. Letters must come directly from the writer or be included in a placement file, and will be evaluated by criminal justice faculty members.

Applications will be evaluated on a competitive basis and enrollment is limited.

### Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Traditional Thesis M.A. Option: completed all required course work except thesis, or  
Professional M.A. Option: completed all required course work except Comprehensive Examination;
3. Completed all course work taken before advancement to candidacy with a minimum grade point average of 3.0 ("B"). Completed all course work with no more than one course with a grade as low as "C." If a second such grade is earned, the student will be dismissed from the program, but may petition the graduate admission committee for readmission. After reviewing the petition, the committee may allow readmission under such conditions as it deems appropriate. A third grade of "C" or lower will result in permanent dismissal from the program with no recourse to petition;
4. For the traditional thesis option: made arrangements for three faculty members, in consultation with the criminal justice graduate coordinator, to serve as the student's graduate advisory committee, with one member designated to chair the committee;
5. Submitted a formal program of graduate studies to the criminal justice graduate coordinator as approved by the graduate committee. This should be done no later than the end of the second quarter of graduate work;
6. Petitioned the graduate committee, during the quarter in which all course work is to be completed, for formal advancement.

The graduate committee will then consider the student's scholastic performance and other circumstances and either grant advancement to candidacy, specify necessary preparatory studies, or recommend other courses of action.

### Requirements for Graduation

1. A minimum of 45 units of acceptable graduate level work, with at least 32 quarter units completed in residence at this university;
2. Completion of course work and an acceptable thesis and final oral defense, or  
Completion of course work and registration in and completion of the comprehensive examination with a grade of credit (Plan II below);
3. Any additional general requirements not cited above and listed on Page 350.

### Degree Requirements (45 units)

#### Plan I (Traditional Thesis Option)

1. CJUS 604. Advanced Techniques of Basic and Applied Research in Criminal Justice (4)
2. CJUS 605. Proseminar in Criminal Justice (4)
3. CJUS 606. Statistical Analysis in Criminal Justice (4)
4. CJUS 607. Applying Criminological Theory to Criminal Justice (4)
5. Four units chosen from:  
CJUS 631. Seminar in Corrections (4)  
CJUS 632. Seminar in Policing (4)
6. CJUS 686. Graduate Review in Criminal Justice (1)
7. Sixteen units of electives (with no more than eight units at the 500-level) to be chosen in consultation with an advisor:  
CJUS 504. Criminal Procedure (4)  
CJUS 550. Crime and Intelligence Analysis (4)  
CJUS 554. Terrorism (4)  
CJUS 570. Crime in Public Spaces (4)  
CJUS 580. Juvenile Justice System (4)



- CJUS 590. Topics in Criminal Justice (2 or 4)  
 CJUS 608. Crime, Criminals and Victims (4)  
 CJUS 629. Minorities in the Criminal Justice System (4)  
 CJUS 630. Legal Issues in Criminal Justice (4)  
 CJUS 631. Seminar in Corrections (4) if not taken above  
 CJUS 632. Seminar in Policing (4) if not taken above  
 CJUS 650. Directed Area Studies in Criminal Justice (1-4)  
 Other courses may be allowed with consent of department.
7. CJUS 699A. Thesis I (4)
  8. CJUS 699B. Thesis II (4)

#### Plan II (Professional Option)

1. CJUS 604. Advanced Techniques of Basic and Applied Research in Criminal Justice (4)
2. CJUS 605. Proseminar in Criminal Justice (4)
3. CJUS 606. Statistical Analysis in Criminal Justice (4)
4. CJUS 607. Applying Criminological Theory to Criminal Justice (4)
5. Four units chosen from:
  - CJUS 631. Seminar in Corrections (4)
  - CJUS 632. Seminar in Policing (4)
6. CJUS 686. Graduate Review in Criminal Justice (1)
7. Twenty-four units of electives (with no more than 12 units at the 500-level) to be chosen in consultation with an advisor:
  - CJUS 504. Criminal Procedure (4)
  - CJUS 550. Crime and Intelligence Analysis (4)
  - CJUS 554. Terrorism (4)
  - CJUS 570. Crime In Public Spaces (4)
  - CJUS 580. Juvenile Justice System (4)
  - CJUS 590D. Topics in Criminal Justice (may be repeated as topics change) (4)
  - CJUS 608. Crime, Criminals and Victims (4)
  - CJUS 629. Minorities in the Criminal Justice System (4)
  - CJUS 630. Legal Issues in Criminal Justice (4)
  - CJUS 631. Seminar in Corrections (4) if not taken above
  - CJUS 632. Seminar in Policing (4) if not taken above
  - CJUS 650. Directed Area Studies in Criminal Justice (1-4)
 Other courses may be allowed with consent of department.
7. CJUS 999. Comprehensive Examination (with a grade of credit "CR") (0)

## COURSE OFFERINGS IN

### CRIMINAL JUSTICE (CJUS)

#### Upper Division

##### 504. Criminal Procedure

Examination of the rules governing criminal procedure. Impact of statutes and case law on criminal justice practitioners including the 4th, 5th, 6th, 8th and 14th Amendments as they affect the accused, the convicted, and the employees working in the criminal justice system. Formerly CJUS 304. Prerequisites: CJUS 102 and consent of instructor. (4 units)

##### 550. Crime and Intelligence Analysis

Analysis of existing criminal justice information systems with current computer applications in order to assist criminal investigations, examine crime patterns and resolve community crime problems. Analytical techniques including link diagrams, telephone tolls, and visual investigations. Prerequisites: CJUS 311 and 312 or equivalent. (4 units)

##### 554. Terrorism

Characteristics and causes of terrorism emerging in the 21st century. An analysis from a criminal justice perspective of terror movements affecting the United States covering legal issues, investigations, and criminal profile. (4 units)

##### 555. Homeland Security

Examination of homeland security events including radiological, biological and chemical events. Emphasis will be given to prevention, preparedness, and response. The roles of local, state and federal agencies are examined. (4 units)

##### 570. Crime in Public Spaces

Field research on the interrelationship between the built urban environment and crime. Involvement in a community project to study public places that generate and attract crime in order to develop creative solutions. Prerequisite: CJUS 311. (4 units)

##### 580. Juvenile Justice System

History, development and theory of the juvenile justice system. Formerly CJUS 353 and 380. (4 units)

##### 590. Topics in Criminal Justice

Special topics in criminal justice. May be repeated for credit with consent of instructor as topics change. Prerequisite: junior, senior or graduate standing. (1-4 units)

##### 597. Senior Honors Project

Original research in an area of criminal justice studies, culminating in a major research report receiving approval of the criminal justice faculty. Enrollment limited to students whose formal application for departmental honors is approved. (4 units)

##### 598. Integrative Studies in Criminal Justice

Overview and integration of major issues in criminal justice. Cannot be counted toward the M.A. in Criminal Justice. Limited to senior and graduate students. (4 units)

##### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

##### 604. Advanced Techniques of Basic and Applied Research in Criminal Justice

The application of scientific methods used as a means for inquiry, description and analysis of crime and the behavior of the criminal justice system. Prerequisite: CJUS 311 with a grade of "C" or better or consent of instructor. (4 units)

##### 605. Proseminar in Criminal Justice

Overview of contemporary research and literature across the criminal justice field. Topics will include current writings and research on crime, police, courts and corrections. (4 units)

##### 606. Statistical Analysis in Criminal Justice

Quantitative analytical techniques for criminal justice data. Emphasis will be placed on using and interpreting nonparametric and multivariate statistics. Prerequisite: CJUS 312 with a grade of "C" or better or consent of instructor. (4 units)

##### 607. Applying Criminological Theory to Criminal Justice

Analysis of social, behavioral and biochemical theories of crime, delinquency and victimization as they apply to criminal justice policy decisions. Examination of pertinent theoretical research and critique of theory formation. (4 units)

##### 608. Crime, Criminals and Victims

Relationships between general crime trends and emerging patterns of criminal activity, and the composition of the offender and victim populations. (4 units)

**392 / Criminal Justice****629. Minorities in the Criminal Justice System**

Roles and treatment of minority populations within the criminal justice system, including historical background, personnel and offender issues, current problems, needs and future directions. (4 units)

**630. Legal Issues in Criminal Justice**

Tort actions against representatives of criminal justice agencies based on case law in the areas of general civil liability, prisoner rights, and administrative and management practices. (4 units)

**631. Seminar in Corrections**

Exploration of topics in correctional administration including public opinion, civil rights, court intervention, system reform and the management of correctional personnel. (4 units)

**632. Seminar in Policing**

Exploration of issues in police administration including public opinion, civil rights, court interventions, system reform and the management of police personnel. (4 units)

**650. Directed Area Studies in Criminal Justice**

Advanced study in a specific area selected by the student with the approval of the student's committee. Prerequisite: consent of instructor. (1-4 units)

**686. Graduate Review in Criminal Justice**

Assessment of graduate students' knowledge and understanding of criminal justice theory and practice. Required of all graduate students in criminal justice master's program. Graded credit/no credit. Prerequisite: advancement to candidacy. (1 unit)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

**699. Thesis**

Preparation of the thesis for the Master of Arts in Criminal Justice under the direction of a faculty member from the student's committee. CJUS 699B must be completed before credit will be awarded for 699A. Graded credit/no credit.

A. I. Prerequisite: advancement to candidacy. (4 units)

B. II. Prerequisite: CJUS 699A. (4 units)

**999. Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

# ECONOMICS

## Department of Economics

Social and Behavioral Sciences Building, Room 327D  
(909) 537-5511 <http://economics.csusb.edu/>

The following courses are offered in support of various graduate degree programs offered at this university.

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### COURSE OFFERINGS IN ECONOMICS (ECON)

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#### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

##### 600. Proseminar in Economics

Survey of the concepts and ideas that economists study, how they approach the study of economic phenomena, and what methods they employ in their analysis. The seminar will include discussion of the relationships of the discipline to other social science disciplines and the unique contributions economics has made to knowledge in general and in the social sciences. Prerequisite: consent of instructor.  
(4 units)

##### 630. International Economic Issues

Contemporary international economic issues of relevance in planning and implementing policy. (4 units)

##### 690. Advanced Topics in Economics

Advanced study of selected areas of economics. May be repeated for credit as topics change. Prerequisite: consent of instructor.  
(4 units)

##### 695. Graduate Independent Study in Economics

Independent graduate research in economics. Prerequisites: graduate standing, consent of instructor, and approval of written proposal of the research. (2-4 units)

# EDUCATION

## College of Education

College of Education Building, Room 182  
(909) 537-5600 <http://www.csusb.edu/coe/>

**NOTE: Room numbers effective Fall 2008, check Summer Schedule of Classes for current locations.**

## Master of Arts in Education

with options in:

Bilingual/Cross-Cultural  
Career and Technical Education  
Correctional and Alternative Education  
Curriculum and Instruction  
Environmental Education  
Health Education  
Holistic and Integrative Education  
Instructional Technology  
Kinesiology  
Reading/Language Arts  
Science Education  
Special Education  
Teaching English to Speakers of Other Languages

## Master of Arts

Educational Administration  
(Degree requirements can be found on Page 440.)  
Rehabilitation Counseling  
(Degree requirements can be found on Page 496.)

## Master of Science

Counseling and Guidance  
(Degree requirements can be found on Page 387.)

## Doctor of Education

Educational Leadership  
(Degree requirements can be found on Page 444.)

## Specialist and Services Credentials

Adapted Physical Education Specialist  
Administrative Services Preliminary  
Administrative Services Preliminary (Internship)  
Administrative Services Professional  
Preliminary Level I Education Specialist Credential: Early  
Childhood Special Education with EL Authorization  
Professional Clear Level II Education Specialist Credential:  
Early Childhood Special Education with EL Authorization  
Internship Education Specialist Credential:  
Early Childhood Special Education with EL Authorization  
Preliminary Level I Education Specialist Credential:  
Mild/Moderate Disabilities with EL Authorization  
Professional Clear Level II Education Specialist Credential:  
Mild/Moderate Disabilities with EL Authorization  
Internship Education Specialist Credential:  
Mild/Moderate Disabilities with EL Authorization  
Preliminary Level I Education Specialist Credential:  
Moderate/Severe Disabilities with EL Authorization  
Professional Clear Level II Education Specialist Credential:  
Moderate/Severe Disabilities with EL Authorization  
Internship Education Specialist Credential:  
Moderate/Severe Disabilities with EL Authorization  
Pupil Personnel Services: School Counseling  
Pupil Personnel Services: School Psychology  
Pupil Personnel Services: Social Work  
Reading/Language Arts Specialist  
School Nurse  
Supervision and Coordination of Designated Subjects Programs

## Certificate Programs

Crosscultural, Language and Academic Development  
(CLAD)  
Early Adolescent Education  
Early Childhood Special Education  
Education of the Gifted and Talented  
Educational Professional Services  
Educational Technology  
Environmental Education  
Reading/Language Arts  
Rehabilitation Counseling  
School Business Management

## Specialist Certificate Program

Resource Specialist in Special Education

## Basic Teaching Credentials

Information on fifth-year, clear credentials and Basic Teaching Credentials (Single Subject, Multiple Subjects and Designated Subjects) can be found beginning on Page 152.

## Division of Teacher Education

### Credentials Office

College of Education Building, Room 102, (909) 537-5609  
<http://www.csusb.edu/coe/case/>

### Masters Program Office and Advanced Credentials

College of Education Building, Room 102, (909) 537-5293  
<http://www.csusb.edu/coe/mac/office/index.html>

### Multiple Subject

College of Education Building, Room 102, (909) 537-5650  
<http://www.csusb.edu/coe/teo/index.html>

### Single Subject

College of Education Building, Room 102, (909) 537-5650  
<http://www.csusb.edu/coe/teo/index.html>

### Special Education

College of Education Building, Room 102, (909) 537-7406

### Supervision Office

College of Education Building, Room 102, (909) 537-5698  
<http://www.csusb.edu/coe/so/index.html>

## Department of Educational Leadership and Curriculum

College of Education Building, Room 374, (909) 537-7404  
<http://www.csusb.edu/coe/elc/index.html>

**FACULTY:** Alexander Aitchison, Bob Bailey, Linda Braatz-Brown, Nick Ferguson, Mark Groen, Juan Gutierrez, James Hill, Susan Jindra, Angela Louque, Thelma Moore-Steward, Ruth Norton, David Stine (Interim Chair), Deborah Stine, Stanley Swartz

**MASTERS:** Curriculum and Instruction  
Educational Administration

## Department of Educational Psychology and Counseling

College of Education Building, Room 243, (909) 537-5606  
<http://www.csusb.edu/coe/epc/index.html>

**FACULTY:** Patricia Arlin, Laura Ashcroft, Richard Ashcroft, Tina Besley, Susan Brotherton, Margaret Cooney, Susan Daniels, Carolyn Eggleston, Sherri Franklin-Guy, Thom Gehring, Young Suk Hwang, Todd Jennings, Kurt Kowalski, Camille Mayers, Sang Seok Nam, Brett Nelson, Kathleen Phillips, Ruth Sandlin (Chair), Donna Schnorr, Gary Sherwin, Sue Spitzer, Dwight Sweeney, Judy Sylva, Joseph Turpin, Michael Verdi, Dudley Wiest, John Winslade, Randall Wright

**MASTERS:** Educational Counseling  
Rehabilitation Counseling  
Special Education



**Department of Language, Literacy and Culture**

College of Education Building, Room 261, (909) 537-7405

<http://www.csusb.edu/coe/lc/index.html>

**FACULTY:** Maria Balderrama, Charlotte Black, Diane Brantley, Mary Jean Comadena, Steve Comadena, Sam Crowell, Lynne Diaz-Rico, Barbara Flores, Monica Garcia, Rosalie Giacchino-Baker, Jose Hernandez, Ina Katz, Barbara Larrivee, Brenda Littleton, Robert London, Marjorie McCabe, Enrique Murillo, Gary Negin, Kristine Nicholls, Bonnie Piller, Mary Jo Skillings (Chair), Nena Torrez, Laura Young

**MASTERS:** Bilingual/Cross-Cultural  
Reading/Language Arts  
Teaching English to Speakers of Other Languages

**Department of Science, Mathematics and Technology Education**

College of Education Building, Room 335, (909) 537-5290

<http://www.csusb.edu/coe/smt/index.html>

**FACULTY:** Eun-Ok Baek, Bonnie Brunkhorst, Herbert Brunkhorst (Chair), Joseph Jesunathadas, Amy Leh, Brian Newberry, Ron Pendleton, Iris Riggs, Sylvester Robertson, Rowena Santiago, Joseph Scarcella, Donna Shea, Catherine Spencer, Darleen Stoner

**MASTERS:** Career and Technical Education  
Environmental Education  
Instructional Technology

**B.S./B.V.E.:** Vocational Education

**MASTER OF ARTS IN EDUCATION**

The M.A. in education with an option in bilingual/crosscultural education is designed to give advanced training to personnel involved in bilingual programs in grades K-12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

The M.A. in education with an option in career and technical education is designed to provide advanced and specialized education to personnel working in a variety of settings related to vocational education such as secondary, postsecondary and private schools. The program should also meet the requirements for leadership positions in these facilities.

The M. A. program in curriculum and instruction is designed for both elementary and secondary teachers. The program provides opportunities for teachers to gain expertise and knowledge in subject matter content and pedagogy or to teach gifted and talented students.

The M.A. in education with an option in environmental education is designed to prepare individuals to teach environmental education effectively in indoor and outdoor settings and to all grade/age levels and enables graduates to assume leadership in environmental education in schools, nature centers, and other interpretative situations. Admission to the program requires teaching experience, but not a teaching credential.

The M.A. in education with an option in health education is intended for persons with an undergraduate degree in health science or a closely related field, including some professional experience in a school or community agency setting. It is designed to prepare professionals in advanced health education theory, as well as program planning and administrative skills necessary to lead school districts and community agencies in the development, implementation and evaluation of state-of-the art health promotion programs for children, teens and adults, including the coordination of health promotion activities in community and/or school settings, and advocacy skills for the protection and enhancement of populational health.

The M.A. in education with an option in holistic and integrative education is a program for creative educators in a nontraditional format emphasizing educational innovation, integrative learning, and meaning-centered learning.

The M.A. in education with an option in instructional technology is designed to meet the needs of technology professionals in schools and other education related settings, as well as business settings. The program has two emphases: research and design/development.

The M.A. in education with an option in reading/language arts meets the needs of the candidate who is interested in increasing skills in the effective teaching of reading/language arts. The program is competency based and places emphasis on the models and methods that enhance the strategic processing of language arts.

The M.A. in education with an option in science education meets the needs of the candidate who is interested in developing her/his pedagogical content knowledge in the teaching and learning of science and develop his/her background to become a science education leader in their school, district, or region. The program also provides the opportunity to increase the candidate's content knowledge in science.

The M.A. in education with an option in special education will provide advanced preparation for teaching the learning handicapped, and will provide training for those persons interested in administrative positions or leadership positions in special education.

The M.A. in education with an option in teaching English to speakers of other languages prepares educators to meet the needs of English language learners in K-12 classrooms in the United States and abroad. The teaching of English around the world is one of the fastest-growing international professions and offers worldwide English teaching opportunities to qualified graduates. Courses in ESL teaching methods and supervised fieldwork opportunities provide a broad overview of theories of language acquisition and social cultural influences on language learning, and strengthen the mastery of classroom techniques.

**M.A. IN EDUCATION****(BILINGUAL/ CROSS-CULTURAL OPTION)****Requirements (48 units)****Admission to the Program**

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A valid teaching credential, teaching experience, or departmental approval;
2. A grade point average of at least 2.5 in the last 90 quarter units and a 3.0 ("B") in all bilingual/crosscultural courses;
3. Demonstrated proficiency in Spanish;
4. Completed the graduate entrance writing requirement.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

**Advancement to Candidacy**

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed, with a grade point average of 3.0 ("B"), 16 quarter units of course work, at least 12 of which must have been on this campus and approved by an advisor in the College of Education;  
**Note:** Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the

College of Education and approved by the Dean of the College of Education and the Dean of Graduate Studies.

### Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate-level work, with a minimum of 34 units completed in residence at this university;
2. A minimum of 23 quarter units taken after the student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements, and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of EDUC 600. Master's Degree Project, which also satisfies the graduation writing requirement;
5. A minimum of 26 units in courses numbered 600 or above included as part of the approved program;
6. Any additional general requirements not cited above and listed on Page 350.

A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal and the project must be approved by the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project.

Students must register for EDUC 600 and these units must be part of the required 48 units.

Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to the traditional forms. All projects will be planned in consultation with the student's advisor.

The program may not include more than 14 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

### Degree Requirements (48 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 605. Foundations of Education (4)
3. EDUC 607. Introduction to Educational Research (4)
4. EELB 606. Theory and Practice in Teaching Bilingual Students I (4)
5. EELB 608. Research in Bilingual/Cross-Cultural Education (4)
6. EELB 612. Social and Cultural Contexts for School Learning (4)
7. EESL 613. Cognition and Language Acquisition (4)
8. Four units chosen from:
  - EELB 611. Spanish Children's Literature for the Bilingual Classroom (4)
  - EELB 625. Curriculum and Materials for Bilingual and ESL Classrooms (4)
  - EELB 626. Literacy and Bilingual Development (4)
9. Four units chosen from:
  - EELB 627. Innovations in Bilingual Education (4)
  - EELB 628. Bilingualism and the Social Construction of Mind (4)
10. Eight units of electives chosen from:
  - ECLG 655. Multicultural Counseling (4)
  - EDCI 664. Thesis/Project Design in Curriculum and Instruction (2)
  - EESL 670. Principles and Practice in TESOL (4)
  - HIST 565. Ethnic Minorities in American History (4)
  - HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)

Other courses selected in consultation with program advisor.

11. Culminating Project (4 units)  
EDUC 600. Master's Degree Project (4)

## M.A. IN EDUCATION (CAREER AND TECHNICAL EDUCATION OPTION)

### Requirements (45 units)

#### Admission to the Program

Applicants must possess a baccalaureate degree from an accredited college or university. Prior to being admitted to the Master of Arts program in the College of Education, applicants must be admitted to the university as an unclassified graduate student. Application for admission to the university should be made at least three months prior to the date the applicant would like to begin taking courses.

#### Advancement to Candidacy

In order to be formally advanced to candidacy, applicants must have:

1. Been accepted to the College of Education as a classified graduate student;
2. Completed the graduate entrance writing requirement;
3. Filed an approved graduate program form for completion of the degree.

As the Career and Technical Education core consists of three sequential courses: EVOC 637, 638 and 639, students should start with the EDUC 306 writing requirement, then complete Emphasis areas and the Education core courses, EDUC 603, 605 and 607.

### Requirements for Graduation

1. A minimum of 45 quarter units of acceptable work, with 32 completed in residence at this university;
2. A minimum of 22 units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Registration and successful completion of a master's degree project (EDUC 600) or comprehensive examination (EVOC 999);
5. The graduation writing requirement is met upon successful completion of the master's degree project or comprehension examination;
6. Any additional general requirements not cited above and listed on Page 350.

A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal must be approved by the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project.

Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to the traditional forms. All projects will be planned in consultation with the student's advisor. The program may not include more than 13 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

### Degree Requirements (45 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 605. Foundations of Education (4)
3. EDUC 607. Introduction to Educational Research (4)
4. EVOC 519. Computer Applications for Vocational Education Teachers (4)

5. EVOC 637. Foundations of Vocational Education (4)
6. EVOC 638. Critical Issues for the Professional Vocational Educator (4)
7. EVOC 639. Professional Competencies in Vocational Education (4)
8. EVOC 640. Topics in Education (2)
9. Successful completion of Track A or Track B:  
Track A  
1. EDUC 600. Master's Degree Project (4)  
Track B  
1. EVOC 999. Comprehensive Examination (0)
10. Eleven units (Track A) or 15 units (Track B) from one of the following emphasis areas:

**Counseling**

1. ECLG 650. Applied Career Counseling (4)
2. Remaining units of electives approved by the candidate's advisor. This course work may also be applied (where appropriate) toward the Certificate in Rehabilitation Counseling.

**Curriculum Development**

1. EDCI 620. School Curriculum (4)
2. Remaining units of electives approved by the candidate's advisor.

**Educational Computing**

1. ETEC 546. Computer Based Technology in Education II (4)
2. Remaining units of electives approved by the candidate's advisor. This course work may also be applied (where appropriate) toward the Certificate in Educational Computing.

**Educational Technology**

1. ETEC 544. Design and Development of Instructional Materials I (4)
2. Remaining units of electives approved by the candidate's advisor. This course work may also be applied (where appropriate) toward the Certificate in Educational Technology.

**School Administration**

1. EADM 601. Educational Leadership and Ethics (4)
2. Remaining units of electives approved by the candidate's advisor. This course work may also be applied (where appropriate) toward the Administrative Services Preliminary credential.

**Special Education**

1. ESPE 530. Psychology and Education of Exceptional Individuals (4)
2. Remaining units of electives approved by the candidate's advisor.

**Supervision and Coordination**

1. EVOC 508. Organization and Structure of Designated Subjects Programs (4)
2. EVOC 509. Personnel Management in Designated Subjects Programs (4)
3. EVOC 510. Field Work in Coordination and Supervision of Designated Subjects Programs (4)
4. Remaining units of electives approved by the candidate's advisor. This course work may also be applied (where appropriate) toward the Supervision and Coordination of Designated Subjects Program credential.

## **M.A. IN EDUCATION (CORRECTIONAL AND ALTERNATIVE EDUCATION OPTION)**

### **Requirements (48 units)**

#### **Admission to the Program**

In addition to the general requirements of the university, specific requirements for admission to classified status follow:

1. A valid teaching credential or teaching experience;
2. A cumulative grade point average of 3.0 ("B") in all courses taken in education;

3. Completion of the graduate entrance writing requirement;
4. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. No more than 20 quarter units may be used to demonstrate fitness to complete the program (to move from conditional to classified status).

#### **Advancement to Candidacy**

In order to be advanced to candidacy a student must have the following:

1. Achieved classified standing;
2. Completed with a grade point average of 3.0 ("B"), at least 16 quarter units of applicable course work in graduate standing, at least 12 of which have been taken at this campus and approved by an advisor in the College of Education;  
**Note:** Between the time of completing 15 and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Satisfactorily completed EDCA 614 and EDUC 603;
4. Secured approval of candidacy from the College of Education;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the program coordinator.

#### **Requirements for Graduation**

1. A minimum of 48 quarter units of acceptable graduate level work, with a minimum of 35 completed in residence at this university;
2. A minimum of 23 units taken after the student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. The graduation writing requirement is met upon successful completion the Master's Degree Thesis/Project;
5. Successful completion of one of the following two tracks:

##### **Track A. Master's Thesis/Project (8)**

1. EDUC 600. Master's Degree Project
2. Four units of electives.

The purpose of the thesis/project is twofold. First, it demonstrates that the student has adopted a research agenda consistent with the needs of both the professional community and the researcher or scholar. Second, it demonstrates willingness and ability to direct one's effort to completion of a salient initiative.

A satisfactory thesis/project is one which reflects original works and shows a level of competence appropriate for a master's degree. A thesis/project can be reported in the form of a paper and/or through other media. Students who plan to go on to doctoral studies are encouraged to discuss the thesis/project option with their advisor.

A thesis/project will be planned in consultation with the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding the approved format. Students who choose the thesis/ project option must enroll in four units in the elective category with approval of an advisor.

##### **Track B. Comprehensive Examination**

1. EDCA 999. Comprehensive Examination (0)
2. Eight units of electives.

The written comprehensive examination is designed to test the student's knowledge in the field of correctional and alternative education. Students may take the examination twice. Students who choose the comprehensive examination option must successfully complete eight units in the electives category with approval of an advisor;



6. The graduation writing requirement is met upon successful completion of EDUC 600 or EDCA 999.

A minimum of 26 units in courses numbered 600 or above must be included in the graduate program. The program may not include more than 13 quarter units in approved extension and transfer courses from other colleges or universities. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program. Any additional general requirements not cited above are listed on Page 350.

### Degree Requirements (48 units)

#### Education Core Courses (12 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 605. Foundations of Education (4)
3. EDUC 607. Introduction to Educational Research (4)

#### Correctional and Alternative Education Core (16 units)

1. EDCA 614. Foundations of Institutional Education: History and Literature (4)
2. EDCA 616. Teaching the Institutional Student (4)
3. EDCA 618. Social and Cultural Dynamics of Institutional Education (4)
4. EDCA 620. Educational Change in Institutional Settings (4)

#### Electives (12 units)

1. Twelve units in the student's area of specialization, chosen in consultation with advisor.

#### Culminating Experience (8 units)

Student must take one of the following two tracks:

##### Track A. Master's Thesis/Project option

1. EDUC 600. Master's Degree Project (4)
2. Four units of electives chosen from the list below:
  - EDCA 628. Special Education in Correctional Institutions (4)
  - EDCA 630. Alternative and Correctional Education (4)
  - EDCA 632. Career and Vocational Education in Correctional Institutions (4)
  - EDCA 634. Correctional Education Leadership (4)
  - EDCA 636. Pedagogy and Andragogy in Correctional Institutions (4)
  - EDCA 638. Organization of Correctional and Alternative Education Service Delivery (4)
  - EDCA 640. Literacy Instruction in Adult Confinement Institutions (4)
  - EDCA 642. Library Services for Alternative and Correctional Students (4)
  - EDCA 644. Pre- and Post-Release Transitions for Correctional Students (4)
  - EDCA 646. Comparative Correctional Education (4)
  - EDCA 684. Special Topics in Correctional and Alternative Education (4)

##### Track B: Comprehensive Examination Option

1. EDCA 999. Comprehensive Examination (0)
2. Eight units of electives chosen from the list above.

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## M.A. IN EDUCATION

### (CURRICULUM AND INSTRUCTION OPTION)

#### Requirements (46 units)

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##### Admission to the Program

In addition to the general requirements of the university specific requirements for admission to classified graduate status are:

1. A valid teaching credential or one year of teaching experience;
2. A cumulative grade point average of 3.0 ("B") in all courses taken in education;

3. Completion of the graduate entrance writing requirement;
4. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

No more than 20 quarter units may be used to demonstrate fitness to complete the program.

##### Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed with a grade point average of 3.0 ("B"), at least 16 quarter units of applicable course work in graduate standing, at least 12 of which have been taken at this campus and approved by an advisor in the College of Education;  
**Note:** Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Satisfactorily completed EDUC 603 and 605;
4. Secured approval of candidacy from the College of Education;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education.

##### Requirements for Graduation

1. A minimum of 46 quarter units of acceptable graduate-level work, with a minimum of 33 completed in residence at this university;
2. A minimum of 23 quarter units taken after the student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of one of the following:
  - Track A. Master's Project (6 units)
    1. EDUC 600. Master's Degree Project (4)
    2. EDCI 664. Thesis/Project Design in Curriculum and Instruction (2)

The purpose of the thesis/project is for the student to communicate ideas gained in research, experimentation and creative endeavors.

A satisfactory thesis/project is one which reflects original works and shows a level of competence appropriate for a master's degree. A thesis/project can be reported in the form of a paper and/or through other media. Students who plan to go on to doctoral studies are encouraged to discuss the thesis/project option with their advisor.

All theses/projects will be planned in consultation with the student's advisor. The thesis/project proposal and the thesis/project must be approved by the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format.

Students who choose the thesis/project option and the Curriculum and Instruction Emphasis must enroll in eight units in the electives category with approval of an advisor. Students who choose the Gifted and Talented Education Emphasis may not choose Track A.

##### Track B. Comprehensive Examination (2 units)

1. EDCI 663. Comprehensive Evaluation in Curriculum and Instruction (2)
2. EDCI 999. Comprehensive Examination (0)

The written comprehensive examination is designed to test the student's knowledge in the field of curriculum and instruction. The examination will be given in the fall and spring quarters. Students may take the examination twice. Students who choose the comprehensive option and Curriculum and Instruction Emphasis must enroll in 12 units in the electives category with approval of an advisor. Students who choose the Gifted and Talented Education Emphasis must complete EDCI 663 and 999, and will not enroll in any elective courses;



- The graduation writing requirement is met upon successful completion of 4A or 4B above;
- A minimum of 26 units in courses numbered 600 or above included as part of the approved graduate program;
- Any additional general requirements not cited above and listed on Page 350.

The program may not include more than 13 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

### Degree Requirements (46 units)

#### Core courses (12 units)

- EDUC 603. Effective Communication in Education (4)
- EDUC 605. Foundations of Education (4)
- EDUC 607. Introduction to Educational Research (4)

#### Curriculum and Instruction Core (12 units)

- EDCI 620. School Curriculum (4)
- EDCI 624. Advanced Teaching Methodology (4)
- EDCI 628. Educational Assessment in K-12 Schools (4)

#### Emphasis Area (8-20 units)

- Students must choose one of the following areas:

#### Curriculum and Instruction (8 units)

Designed for current practitioners to gain expertise and knowledge in their content areas. Students choose eight units from one of the following categories:

- Elementary: Eight units chosen from:
  - EDCI 638. Advanced Educational Psychology (4)
  - EELB 630. Children's Literature in the Classroom (4)
  - EELB 632. Mathematics Clinic (4)
  - EELB 634. Advanced Social Studies Methods (4)
  - EELB 636. Advanced Science Methods (4)
- Secondary: Eight units of upper division or graduate-level electives, outside the College of Education, normally in the candidate's teaching area(s), selected with the approval of an advisor.

#### Gifted and Talented Education (20 units)

Designed for current practitioners to gain expertise and knowledge in the area of gifted and talented education (GATE) that are needed to address the California Department of Education Standards for Programs for Gifted and Talented students. (Also provides the five courses required for the GATE Certificate.)

- ECLG 536. Social-Emotional Development of the Gifted and Talented (4)
- EDCI 540. Differentiated Curriculum and Instruction (4)
- EDCI 543. Creativity, Thinking and Problem Solving (4)
- ESPE 538. Introduction to Teaching the Gifted and Talented (4)
- ESPE 539. Programs for Teaching the Gifted and Talented (4)

#### Electives (Track A: 4-8 units/Track B: 4-12 units)

Students pursuing the Curriculum and Instruction Emphasis must take eight units in Track A or twelve units in Track B. Students pursuing the Gifted and Talented Emphasis will not enroll in any elective courses.

- Students may select from the following list or consult with their advisor for additional elective possibilities:
  - EADM 619. Policy, Governance and Legal Aspects of Education (4)
  - EDCI 656. Curriculum for Early Adolescents (4)
  - EELB 315. Reading/Language Arts Curriculum and Pedagogy (3)

- EELB 316. Reading/Language Arts (Primary Language) Curriculum and Pedagogy (3)
  - EELB 423. Mathematics Curriculum and Pedagogy (4)
  - EELB 425. Literacy and Second Language Acquisition for the Intermediate Reader and Beyond (3)
  - EELB 532. Science/Health Curriculum and Pedagogy (4)
  - EELB 533. Social Studies and the Arts Curriculum and Pedagogy (4)
  - EELB 534. Social Studies and the Arts (Primary Language) Curriculum and Pedagogy (4)
  - ESEC 443. Adolescent Development and Educational Contexts (4)
  - ESEC 510. Teaching English as a Second Language in Secondary Schools (4)
  - ESEC 515. Issues and Trends in Secondary Education (2) for a total of (4)
  - ESEC 602. Special Topics in Secondary Education (2)
  - ETEC 546. Computer Based Technology in Education II (4)
- May choose only one of the following courses or an appropriate single subject matter course chosen in consultation with an advisor:
- ART 499. Art Education: Methods and Materials (4)
  - ESEC 441. Secondary School Curriculum and Instruction II (4)
  - MATH 499. Teaching Mathematics (4)
  - MUS 410. Music in the Elementary Schools (4)
  - MUS 411. Music in the Secondary Schools (4)

#### Culminating Experience (Track A: 6 units, Track B: 2 units)

- Students must take one of the following two tracks:

#### Track A: Master's Thesis/Project Option (6 units)

- EDCI 664. Thesis/Project Design in Curriculum and Instruction (2)
- EDUC 600. Master's Degree Project (4)

#### Track B: Comprehensive Examination Option (2 units)

This track must be completed by students following the emphasis area of Gifted and Talented Education.

- EDCI 663. Comprehensive Evaluation in Curriculum and Instruction (2)
- EDCI 999. Comprehensive Examination (0)

## M.A. IN EDUCATION

### (ENVIRONMENTAL EDUCATION OPTION)

#### Requirements (48 units)

#### Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are as follows:

- Either A or B as follows:
    - Possession of a valid teaching credential.
    - Teaching experience or related experience. One letter of recommendation from a person in a position to make relevant comments on the student's teaching experience and potential for success in the graduate education program must be submitted;
  - Submission of a one-page typewritten statement of the student's preparation for graduate study in environmental education and personal goals for the graduate education program;
  - A cumulative undergraduate grade point average of 3.0 ("B") overall;
  - Completion of the graduate entrance writing requirement.
- Students who do not meet these criteria may be admitted as conditionally classified graduate students.

**Advancement to Candidacy**

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed with a grade point average of 3.0 ("B"), at least 16 quarter units of applicable course work in graduate standing, at least 12 of which must have been on this campus and approved by an advisor in the College of Education;  
**Note:** Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Secured approval of candidacy from the College of Education;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education.

**Requirements for Graduation**

1. A minimum of 48 quarter units of acceptable work, with 34 completed in residence at this university;
2. A minimum of 25 quarter units taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in coursework taken to satisfy the Master of Arts degree requirements and grade of "C" (2.0) or better in all courses in the program;
4. Culminating Experience. Student must, with the advice and approval of their advisor, choose one of the three culminating experiences in program of study.

**Track A: Master's Project (8 units)**

EENV 664. Research in Environmental Education (4)

EENV 697. Master's Degree Project (4)

**Track B: Master's Thesis (8 units)**

EENV 664. Research in Environmental Education (4)

EENV 699. Thesis (4)

**Track C: Comprehensive Examination (8 units)**

EENV 651. Historical and Contemporary Readings in Environmental Education (4)

EENV 664. Research in Environmental Education (4)

EENV 999. Comprehensive Examination (4)

The purpose of the project is for the student to communicate ideas gained through creative endeavors. The purpose of the thesis is for the student to conduct research to communicate the results. A satisfactory project/thesis is one which reflects original work and shows a level of competence appropriate for a master's degree. The student's project/thesis committee is usually chaired by the student's advisor and includes at least one other member, preferably who has specialized expertise related to the project/thesis, and is chosen by the student after consultation with the committee chair.

The purpose of the comprehensive examination is to test the student's knowledge of the field of environmental education. The student may enroll not earlier in EENV 999 than the last quarter in which course work for the program is taken. Students who do not obtain a passing score may take the exam a second time within two quarters, with approval from the program coordinator. Students who have registered for EENV 999 must retain classified standing in the master's program by enrolling in subsequent quarters in EDUC 698 until exam is retaken. Approval to retake the exam may be contingent upon completion of additional designated courses. The Comprehensive Examination Track, after taking the exam, may not be modified to the Thesis or Project Track;

5. The graduation writing requirement is met upon successful completion of 4A, 4B or 4C above.

Students who are advanced to candidacy in the program and who fail to register for at least one course in the program each quarter will be declassified from the program. Classified graduate students in

the program must complete their degree requirements within seven years of admission to the program. Students who have registered for EENV 697 or 699 must retain classified standing in the master's program by enrolling in EDUC 698 each quarter until project or thesis is accepted.

The program may not include more than 14 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

**Degree Requirements (48 units)**

Required cohort courses (14 units)

Students will be directed to register in specially designated sections of the courses below to take them as a program cohort during the first year of the program.

1. EENV 635. Environmental Education in the Curriculum (4)
2. EENV 636. Teaching Current Environmental Issues (2)
3. EENV 642. Developing the Curriculum Through Outdoor Education (4)
4. EENV 643. Community Resources for Environmental Education (4)

Other required courses (18 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 605. Foundations of Education (4)
3. EDUC 607. Introduction to Educational Research (4)
4. EENV 650. Selected Topics in Environmental Education (4)
4. EENV 679. Fieldwork: Environmental Education (2)

Electives (8 units)

1. Eight units of electives of which at least four must come from group A:

**Group A**

EENV 601. Graduate Independent Study (2 or 4)

EENV 620. Using Children's Literature to Teach Environmentally (4)

EENV 644. Seminar in Environmental Education (4)

EENV 651. Historical and Contemporary Readings in Environmental Education (4) (For Track C this is required, not an elective)

EENV 652. Nature Study in Environmental Education (4)

EENV 654. Fundraising Fundamentals in Environmental Education (4)

EENV 656. Water Education in Environmental Education (4)

EENV 679. Fieldwork: Environmental Education (2 or 4)

**Group B**

ANTH 375. Museum Methods (4)

ASTR 311. A Cosmic Perspective of Earth (4)

BIOL 380. Medical and Economic Botany (4)

COMM 304. Intercultural Communication (4)

EELB 636. Advanced Science Methods (4)

GEOG 350. Conservation and Natural Resources (4)

GEOG 360. Weather and Climate (4)

GEOG 470. Hydrology and Water Resources (4)

GEOL 309. Earth: The Blue Planet (4)

GEOL 311. The Dynamic Earth (4)

HIST 630. California Water History (4)

HSCI 352. Principles of Environmental Health (4)

MGMT 324. International Environmental Management (4)

NSCI 320. Energy (4)

PA 514. Management of Private Nonprofit Organizations (4)

Other courses upon consent of advisor.

Culminating Experience (8 units)

Students must take one of the following three tracks:

**Track A: Master's Project (8 units)**

- EENV 664. Research in Environmental Education (4)
- EENV 697. Master's Degree Project (4)

**Track B: Master's Thesis (8 units)**

- EENV 664. Research in Environmental Education (4)
- EENV 699. Master's Degree Thesis (4)

**Track C: Comprehensive Examination (8 units)**

- EENV 651. Historical and Contemporary Readings in Environmental Education (4)
- EENV 664. Research in Environmental Education (4)
- EENV 999. Comprehensive Examination (0)

## M.A. IN EDUCATION (HEALTH EDUCATION OPTION)

### Requirements (48 units)

#### Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. An undergraduate major in school health education or a closely-related discipline;
2. A valid multiple subjects or single subject teaching credential. (NOTE: Applicants with a Single Subject Credential must demonstrate subject matter competency in health science by successfully passing the CSET in Health Science, or graduating from a Subject Matter Approved Program);
3. A minimum of one year of health science teaching experience or closely-related experience;
4. Completion of HSCI 470 and 471, or closely-related coursework, with a grade of "B" or better;
5. Completion of the graduate entrance writing requirement;
6. Completion of the Graduate Record Examination (GRE);
7. A 400-word typewritten, double-spaced Personal Statement documenting previous involvement in student health and/or health education, reasons for pursuing this degree, and demonstrating commitment to school health education, to be evaluated by Health Science and Human Ecology program faculty;
8. Three letters of recommendation, to be evaluated by Health Science and Human Ecology program faculty.

The admissions requirements above must be completed and submitted by August 1st in order to be admitted as a classified graduate student for the Fall Quarter.

#### Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed at least 16 quarter units of acceptable coursework at this university, with the approval of the advisors and with a minimum grade point average of 3.0 ("B");

**Note:** Between the time of completing 16 units and 24 units of applicable course work the student is required to apply for advancement to candidacy.

3. Satisfactorily completed EDUC 605 and HSCI 608;
4. Secured the approval of candidacy from the College of Education and the Department of Health Science and Human Ecology;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with advisors in the College of Education and the Department of Health Science and Human Ecology, and approved by the college, the department and the Dean of Graduate Studies.

Each student will have an advisor from the Department of Health Science and Human Ecology.

### Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate-level work, with 34 completed in residence at this university;
2. At least 24 units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "B-" or better in all courses in the program;
4. Two specified courses in education, six courses in health science, and two electives;
5. Successful completion of an applied project or an empirical thesis. The project or thesis represents independent graduate activity conducted under the guidance of a three-member project or thesis committee composed of two Health Science and Human Ecology faculty members, and one additional faculty member or professional representing the student's area of interest. The purpose of the project or thesis is for the student to demonstrate competency in the assessment, planning, implementation and/or evaluation of a school health education-related program as it relates to the student's area of interest. (NOTE: Graduate students planning to pursue a Ph.D. are strongly advised to complete the empirical thesis option.) The project or thesis proposal must be approved by the student's committee, and secure Institutional Review Board (IRB) approval, prior to the student enrolling in HSCI 696B (project) or 699B (thesis). Further information is available from the College of Education regarding an approved format for the thesis proposal and thesis.

The program may not include more than 14 quarter units in extension and transfer credit from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

#### Degree Requirements (48 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 605. Foundations of Education (4)
3. HSCI 604. Theory and Practice of Interventions (4)
4. HSCI 606. Advanced Program Evaluation (4)
5. HSCI 608. Health Research Methods (4)
6. HSCI 612. Public Health Statistics (4)
7. HSCI 622. Health Education Curriculum Development (4)
8. HSCI 640. Administration of Health Education Programs (4)
9. Eight units of 400-level or graduate health science, educational administration, or other electives in consultation with the departmental advisor.
10. Eight units selected from:
  - Project
  - HSCI 696A. Proposal Development and Research (4)
  - HSCI 696B. Research/Project Development, Writing and Defense/Presentation (4)
  - Thesis
  - HSCI 699A. Thesis: Proposal Development and Research (4)
  - HSCI 699B. Thesis: Research Writing and Defense (4)

## M.A. IN EDUCATION (HOLISTIC AND INTEGRATIVE EDUCATION OPTION)

### Requirements (48 units)

This is an innovative program for creative educators interested in entering a dialog with a cohort of master's students and a team of professors to explore ways to develop and implement innovative and meaningful curriculum. The major objective is to help each teacher become clearer about their vision of education and how to implement that vision in their classroom and professional life. The program has been recognized nationally for its transformative approach to the education process.



**Admission to the Program**

In addition to the general requirements of the university, specific requirements for admission to classified status are:

1. Official admission to the university;
2. Application for admission to the College of Education for the M.A. in Education, Holistic and Integrative Education Option;
3. Completion of the graduate entrance writing requirement;
4. Completion of an interview with the program coordinator;

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Change to classified standing can be made only with approval of the program coordinator.

**Advancement to Candidacy**

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed at least 16 quarter units of acceptable course work at this university, with the approval of the program coordinator and with a minimum grade point average of 3.0 ("B") or better;
3. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with the program coordinator.

**Requirements for Graduation**

1. A minimum of 48 quarter units of acceptable work, with a minimum of 35 units completed at this university;
2. Successful completion of the six required program courses;
3. Successful completion of a M.A. project/thesis or comprehensive examination.
4. Any additional general requirements not cited above and listed on Page 350.

A satisfactory project is one which must be reported in the form of a paper. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms. The project proposal and the project must be approved by the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project.

**Degree Requirements (48 units)**

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 605. Foundations of Education (4)
3. EDUC 607. Introduction to Educational Research (4)

**Cohort courses (24 units)**

1. EDUC 611. Foundations of Integrative and Holistic Models of Education (4)
2. EDUC 613. Integration and Meaning in Education (4)
3. EDUC 615. Exploring Arts, Creativity and Sign Systems (4)
4. EDUC 617. Exploring Integrative and Holistic Curriculum Theory (4)
5. EDUC 619. Seminar in Holistic Education (4)
6. EDUC 621. Assessment and Research: Holistic Perspective (4)

Students will be directed to register in specially designated sections of the above courses open only to teachers in the program cohort. All courses in the program are appropriate for teachers at any grade level or school setting.

**Culminating Experience (12 units)**

Students must complete one of the categories below:

**Project**

1. EDUC 600. Master's Degree Project (4)
2. Eight units of individually selected coursework, approved by the program coordinator.

**Comprehensive Examination**

1. EDUC 999. Comprehensive Examination (0)
2. Twelve units of individually selected coursework, approved by the program coordinator.

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**M.A. IN EDUCATION****(INSTRUCTIONAL TECHNOLOGY OPTION)**

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**Requirements (48 units)**

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**Admission to the Program**

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A cumulative grade point average of 3.0 ("B") in all upper-division courses;
2. Completion of the graduate entrance writing requirement;
3. Three letters of recommendation, from individuals familiar with the applicant's work history or educational background.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

**Advancement to Candidacy**

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed with a grade point average of 3.0 ("B"), at least 16 quarter units of applicable course work in graduate standing, at least 12 of which have been taken at this campus and approved by an advisor in the College of Education;

**Note:** Between the time of completing 16 units and 20 units of applicable course work the student is required to apply for advancement to candidacy.

3. Satisfactorily completed EDUC 607, ETEC 500, 543 and 544;
4. Secured approval of candidacy from the College of Education;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the Dean of Graduate Studies.

**Requirements for Graduation**

1. A minimum of 48 quarter units of acceptable graduate-level work, with a minimum of 34 completed in residence at this university;
2. A minimum of 28 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of a master's degree project or comprehensive examination. The project, part of a course or courses other than independent study, normally in the candidate's teaching area, can be reported in the form of a paper and/or other media. The project must be approved by the instructor and the advisor and submitted in the approved format. Both media and non-media projects require a final written report. The project proposal and the project must be approved by the student's advisor and two other professors, at least one of whom must be from the College of Education. Further information is available from the College of Education regarding an approved format for the project proposal and project.

The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms. All projects will be planned in consultation with the student's advisor;

5. The graduation writing requirement is met upon successful completion of the Master's Degree Project;



6. A minimum of 26 units in courses numbered 600 or above included as part of the approved graduate program;
7. Any additional general requirements not cited above and listed on Page 350.

The program may not include more than 14 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

### Degree Requirements (48 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 605. Foundations of Education (4)
3. EDUC 607. Introduction to Educational Research (4)
4. ETEC 500. Foundations in Instructional Technology (4)
5. ETEC 543. Technology and Learning I (4)
6. ETEC 544. Design and Development of Instructional Materials I (4)
7. ETEC 692. Practicum in Educational Technology (4)
8. One of the following (4 units):

#### Research

ETEC 643. Technology and Learning II (4)

#### Design/Development

ETEC 644. Design and Development of Instructional Materials II (4)

#### 9. Electives

Twelve units chosen from:

- ETEC 546. Computer Based Technology in Education II (4)  
 ETEC 614. Needs Assessment: Issues and Techniques (4)  
 ETEC 617. Instructional Development and Change Process (4)  
 ETEC 623. Technology for Educational Leaders (4)  
 ETEC 634. Information Systems in Education (4)  
 ETEC 674. Telecommunications in Education (4)  
 ETEC 676. Advanced Topics in Instructional Technology (2-8)

Students may take up to eight units from other programs, departments, colleges or universities with an approval of an ETEC advisor and ETEC program coordinator.

#### 10. Culminating Experience (4 units)

Students must complete one of the following options:

##### Project

1. ETEC 699. Master's Degree Project (4)

##### Examination

1. ETEC 999. Comprehensive Examination (0)
2. Four units of ETEC courses.

## M.A. IN EDUCATION (KINESIOLOGY OPTION)

### Requirements (46 units)

#### Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A valid teaching credential, teaching experience or related experience;
2. An undergraduate major in kinesiology and physical education or related discipline;
3. Completion of the graduate entrance writing requirement;
4. Three letters of recommendation, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Change to classified standing can be made only with approval of the College of Education and the Department of Kinesiology. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

### Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed at least 16 quarter units of acceptable course work at this university, with the approval of the advisors and with a minimum grade point average of 3.0 ("B"). At least eight units must be in kinesiology, and four units in education;  
**Note:** Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Satisfactorily completed EDUC 605 and 607;
4. Secured the approval of candidacy from the College of Education and the Department of Kinesiology;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with advisors in the College of Education and in the Department of Kinesiology and approved by the college, the department and the Dean of Graduate Studies.

Each student will have an advisor from the College of Education and one from the Department of Kinesiology. Dual signatures are necessary for registration for the initial quarter.

### Requirements for Graduation

1. A minimum of 46 quarter units of acceptable graduate-level work, with 33 completed in residence at this university;
2. At least 23 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Six specified courses in education and seven courses in kinesiology;
5. Successful completion of the following:  
 EDUC 600. Master's Degree Project (4)

A satisfactory project is one which can be reported in the form of a paper and/or through other media. Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms. All projects will be planned in consultation with the Graduate Coordinator in the Department of Kinesiology. The project proposal and the project must be approved by the Graduate Coordinator in the Department of Kinesiology and submitted in an approved format.

The program may not include more than 13 quarter units in extension and transfer credit from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

### Degree Requirements (46 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 605. Foundations of Education (4)
3. EDUC 607. Introduction to Educational Research (4)
4. ESEC 506P. Curriculum and Instruction Area: Physical Education (4)
5. KINE 600. Graduate Seminar (2)
6. KINE 623. Sport and Social Issues (4)
7. KINE 624. Sport Psychology (4)
8. KINE 630. Physical Education for Special Populations (4)
9. KINE 670. Leadership in Physical Education (4)
10. KINE 681. Exercise and Sport Science (4)
11. KINE 685. Analysis of Human Movement (4)
12. Culminating Experience  
 EDUC 600. Master's Degree Project (4)

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**M.A. IN EDUCATION  
(READING/LANGUAGE ARTS OPTION)**

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**Requirements (48 units)**

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**Admission to the Program**

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A valid basic California teaching credential or teaching experience;
2. A cumulative grade point average of 3.0 ("B") in all courses taken in education;
3. Completion of the graduate entrance writing requirement.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education. No more than 16 quarter units may be used to demonstrate fitness to complete the program.

**Advancement to Candidacy**

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed with a grade point average of 3.0 ("B"), 12 quarter units of course work at least eight of which must have been on this campus and approved by an advisor in the College of Education;  
**Note:** Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Secured approval of candidacy from the College of Education;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the program coordinator.

**Requirements for Graduation**

1. A minimum of 48 quarter units of acceptable work, with 35 completed in residence at this university;
2. A minimum of 23 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of A or B below:
  - A. ERDG 999. Comprehensive Examination (0),  
ERDG 643. Critical Issues in Intermediate Reading and Writing (4)
  - B. EDUC 600. Master's Degree Project (4);
5. The graduation writing requirement is met upon successful completion of ERDG 631;
6. Any additional general requirements not cited above and listed on Page 350.

A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal and the project must be approved by the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available in the Graduate Thesis and Project Handbook available in the Coyote Bookstore. Students who elect to complete a project are not required to take a comprehensive examination.

Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to the traditional forms. All projects will be planned in consultation with the student's advisor.

The comprehensive examination is of an integrative nature and is designed to test the student's knowledge of the field of reading/language arts rather than the subject matter of courses taken. The examination in reading/language arts is offered once each quarter. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student must complete a graduation check with the Office of Records, Registration and Evaluations before permission to take the examination can be granted. Students who do not receive a passing score may petition the College of Education to retake the examination or any part of it. Students who do not receive a passing score the second time must petition the Dean of Graduate Studies to take it again. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

The program may not include more than 13 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

**Degree Requirements (48 units)****Core Courses (12 units)**

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 605. Foundations of Education (4)
3. EDUC 607. Introduction to Educational Research (4)

**Reading Core (32 units)**

1. ERDG 620. Foundations of Reading and Writing (4)  
**Note:** ERDG 620 is a prerequisite for all courses in the program.
2. ERDG 622. Basic Materials and Approaches to Reading and Writing (4)
3. ERDG 625. Practicum in Reading and Writing (4)
4. ERDG 631. Curriculum Perspectives in Reading and Writing (4)
5. ERDG 632. Assessment/Evaluation in Reading and Writing (4)
6. ERDG 640. Early Reading: Assessment and Intervention (4)
7. ERDG 642. Images of Culture through Children's Literature (4)
8. ERDG 658. Literacy and Language Processes (4)

**Culminating Experience (4 units)**

1. Successful completion of A or B below:
  - A. Comprehensive Examination Option  
ERDG 643. Critical Issues in Intermediate Reading and Writing (4)  
ERDG 999. Comprehensive Examination (0)
  - B. Master's Degree Project Option  
EDUC 600. Master's Degree Project (4)

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**M.A. IN EDUCATION  
(SCIENCE EDUCATION OPTION)**

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**Requirements (48 units)**

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**Admission to the Program**

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A valid basic California science teaching credential or related teaching experience;
2. A cumulative grade point average of 3.0 ("B") in all courses taken in education and in science;
3. Completion of the graduate entrance writing requirement;
4. Completion of an entrance interview with at least two members of the program faculty.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Change to classified standing can be made only with approval of the Department of Science, Mathematics and Technology Education.

### Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed at least 16 quarter units of acceptable course work at this university, with the approval of the program advisors and with a minimum grade point average of 3.0 ("B") or better. At least eight units must be in Science Education and completion of EDUC 605. The remaining four units may be in science or science education;

**Note:** Between the time of completing 16 units and 20 units of applicable course work, the student is required to apply for advancement to candidacy.

3. Satisfactorily completed EDUC 605;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with a program advisor from the Department of Science, Mathematics and Technology Education and the Dean of Graduate Studies.

### Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate level work, with at least 34 completed in residence at this university, and 34 of the 48 units be taken at the 500- to 600-level;
2. Completion of the 30 unit core in education, science education, and natural sciences. Two specified courses in education; five specified courses in science education, and one specified course in natural sciences;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of A or B below:
  - A. Masters Degree Project/Thesis Option  
EDSC 699. Masters Thesis/Project in Science Education
  - B. Comprehensive Examination  
EDSC 999. Comprehensive Examination and an additional four units of science
5. Successful completion of the thesis/project to meet the university graduation writing requirement;
6. The remaining 12 units may be chosen from the list of electives in science which may include on-line courses offered by an accredited college/university, qualify for graduate credit and be approved by the program faculty.

### Degree Requirements (48 units)

Education Core Courses (8 units)

1. EDUC 605. Foundations of Education (4)
2. EDUC 607. Introduction to Educational Research (4)

Science Education Core Courses (20 units)

1. EDSC 623. The Science Curriculum (4)
2. EDSC 634. Research in Science Education (4)
3. EDSC 643. Assessment in the Science Classroom (4)
4. EDSC 644. Inquiry Teaching and Learning in the Science Classroom (4)
5. EDSC 647. Advanced Topics in Teaching Science (4)

Natural Science Core Course (4 units)

1. NSCI 604. The Nature and History of Science (4)

Culminating Experience (4 units)

Students must complete one of the following options

### Thesis/Project Option

1. EDSC 699. Master's Degree Thesis/Project in Science Education (4)

### Comprehensive Examination Option

1. EDSC 999. Comprehensive Examination (0)
2. Four additional units of science courses approved by the student's program advisor.

Electives (12 units)

**NOTE:** Student must have the appropriate prerequisites for the course.

- |           |  |
|-----------|--|
| ASTR 311. | A Cosmic Perspective of Earth (5)      |
| BIOL 301. | Biology in the Classroom (4)           |
| BIOL 305. | Biology of Dinosauria (4)              |
| GEOG 350. | Conservation and Natural Resources (4) |
| GEOL 309. | Earth: The Blue Planet (5)             |
| NSCI 300. | Science and Technology (4)             |
| NSCI 310. | The Environment and Human Survival (4) |
| NSCI 314. | Life in the Cosmos (4)                 |
| NSCI 360. | Legacy of Life (4)                     |
| PHYS 303. | Astronomy for Educators (3)            |

### M.A. IN EDUCATION

#### (SPECIAL EDUCATION OPTION)

#### Requirements (48 units)

The Special Education Program recommends that all students pursuing the M.A. in Education, Special Education Option be enrolled concurrently in an Educational Specialist Credential program. Students pursuing only the M.A. degree must have permission from their faculty advisor.

#### Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified status are:

1. Official admission to the university;
2. Application for admission to the College of Education for the M.A. in Education, Special Education Option;
3. Submission of an application for a Certificate of Clearance or evidence of a credential or permit issued by the California Commission on Teacher Credentialing (CCTC);
4. Completion of prerequisite courses ESPE 529 and 530 with grades of "B" or better;
5. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program;
6. Completion of the graduate entrance writing requirement by one of the following:
  - a. Completion, with a grade of "B" (3.0) or better, of one of the following courses: EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, or SSCI 306 at this university or an equivalent course;
  - b. Satisfactory completion of the Writing Requirement Exemption Examination (WREE) offered at this university.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

### Advancement to Candidacy

In addition to the above program admission requirements, master's degree candidates must successfully complete the following requirements in order to be advanced to candidacy:

1. Achieved full admission to the M.A. in Education, Special Education Option (Early Childhood, Mild/Moderate or Moderate/Severe);
2. Completion of one of the following sets of courses for the emphasis with a grade point average of 3.0 ("B") or better with no grade lower than a "B-":
  - A. Early Childhood



## 406 / Education

- ESPE 637. Assessment and Evaluation
  - ESPE 650. Development and Assessment of Young Children with Disabilities
  - ESPE 665. Curriculum and Methods in Special Education: Early Childhood
  - B. Mild/Moderate
    - ESPE 624. Managing Learning and Social Communities
    - ESPE 637. Assessment and Evaluation
    - ESPE 655. Curriculum and Methods in Special Education: Language Arts
  - C. Moderate/Severe
    - ESPE 624. Managing Learning and Social Communities
    - ESPE 637. Assessment and Evaluation
    - ESPE 651. Curriculum Strategies for Students with Moderate/Severe Disabilities
  - 3. Secured approval of candidacy from the College of Education;
  - 4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an assigned advisor in the College of Education and approved by the Chair of the Department of Special Education.
- Note:** Advancement to candidacy must be processed prior to completion of 20 quarter units of master's degree course work. Students will not be permitted to take the comprehensive examination in the same quarter they are advanced to candidacy.

### Requirements for Graduation

In addition to requirements listed on Page 350, candidates must meet the following requirements for graduation:

1. A minimum of 48 quarter units of acceptable work, with a minimum of 35 units completed at this university;
 

**Note:** The program may not include more than 13 quarter units in approved CSUSB extension or transfer courses from other colleges/universities. CSUSB will not consider the transfer of course work from an institution which will not accept that work towards its own advanced degree program.
2. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements with no grade lower than a "B-" in all courses in the program;
3. Successful completion of the project/thesis and/or comprehensive examination to meet the university graduation writing requirement.

A satisfactory project is one which must be reported in the form of a paper. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms. The project proposal and the project must be approved by the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project. Students who elect to complete a project are not required to take a comprehensive examination.

The comprehensive examination is of an integrative nature and is designed to test the student's knowledge of a specific field, rather than subject matter of courses taken. The examination is offered once each quarter. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student must complete a graduation check with the Office of Records, Registration and Evaluations before permission to take the examination can be granted. Students who do not receive a passing score may petition the College of Education to retake the examination or any part of it. Students who do not receive a passing score the second time must petition the Dean of Graduate Studies to take it again. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

Prerequisite courses to be completed with a grade of "B" or better:

1. ESPE 529. Introductory Methods for Special Education (4)
2. ESPE 530. Psychology and Education of Exceptional Individuals (4)

### Degree Requirements (48 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 605. Foundations of Education (4)
3. EDUC 607. Introduction to Educational Research (4)
4. Four units from one of the following emphasis areas:

#### Early Childhood

- ESPE 651. Curricular Strategies for Students with Moderate/Severe Disabilities (4)

#### Mild/Moderate

- ESPE 624. Managing Learning and Social Communities (4)

#### Moderate/Severe

- ESPE 624. Managing Learning and Social Communities (4)
- 5. ESPE 635. Effective Communication with Professionals and Families (4)
- 6. ESPE 637. Assessment and Evaluation (4)
- 7. Four units from one of the following emphasis areas:

#### Early Childhood

- ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)

#### Mild/Moderate

- ESPE 649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation (4)

#### Moderate/Severe

- ESPE 649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation (4)
- 8. ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)
- 9. One of the following emphases:

#### Early Childhood

- 1. ESPE 650. Development and Assessment of Young Children with Disabilities (4)
- 2. ESPE 653. Seminar on Moderate/Severe Disabilities (4)
- 3. ESPE 665. Curriculum and Methods in Special Education: Early Childhood Special Education (4)

#### Moderate/Severe Disabilities

- 1. ESPE 651. Curricular Strategies for Students with Moderate/Severe Disabilities (4)
- 2. ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)
- 3. ESPE 653. Seminar on Moderate/Severe Disabilities (4)

#### Mild/Moderate Disabilities

- 1. ESPE 655. Curriculum and Methods in Special Education: Language Arts (4)
- 2. ESPE 656. Curriculum and Methods in Special Education: Core Subjects (4)
- 3. ESPE 657. Seminar on Mild/Moderate Disabilities (4)
- 10. One of the following options:

#### Master's Degree Project (4 units)

- 1. EDUC 600. Master's Degree Project (4)

#### Written Comprehensive Examination Option (4 units)

- 1. ESPE 999. Comprehensive Examination (0)



2. Four units chosen in consultation with an advisor which may include one of the following:
  - ESPE 542D. Seminar in Special Education (4)
  - ESPE 633. Reflective Inquiry Seminar and Induction Plan (4)

**Note:** An application is required, contact the Department of Special Education

- ESPE 650. Development and Assessment of Young Children with Disabilities (4)

**Note:** not an elective for ECSE.

- ESPE 665. Curriculum and Methods in Special Education: Early Childhood (4)

**Note:** not an elective for ECSE.

- ESPE 685. Advanced Behavior Management (4)

**Note:** not an elective for ECSE.

- ESPE 691A. Issues and Trends in Special Education: Current Issues (4)
- ESPE 691B. Issues and Trends in Special Education: Collaboration and Consultation (4)
- ESPE 691D. Issues and Trends in Special Education: Instructional Technologies (4)
- ESPE 691E. Issues and Trends in Special Education: Administration (4)
- ESPE 691F. Issues and Trends in Special Education: Historical (4)
- ESPE 691G. Issues and Trends in Special Education: Special Populations (4)
- ESPE 691H. Issues and Trends in Special Education: Transition (4)
- ESPE 691J. Issues and Trends in Special Education: Post Secondary (4)

## **M.A. IN EDUCATION (TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES [TESOL] OPTION)**

### **Requirements (48 units)**

#### **Admission to the Program**

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A cumulative grade point average of 3.0 ("B") in all courses taken in education;
2. Completion of the graduate entrance writing requirement;
3. EESL 521. Computer-Assisted Language Learning.

#### **Advancement to Candidacy**

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
  2. Satisfactorily completed EDUC 603, 605 and 607;
- Note:** Between the time of completing 12 units and 19 units of applicable course work the student is required to apply for advancement to candidacy.
3. Secured approval of candidacy from the College of Education;
  4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor and approved by the Dean of the College of Education;
  5. Native speakers of English must have two semesters or three quarters of study in one or more foreign languages at the post secondary level. Non-native speakers of English must have two semesters or three quarters of study in one or more foreign languages (not English) at the post secondary level or take COMM 120.

#### **Requirements for Graduation**

1. A minimum of 48 quarter units of acceptable graduate-level work, with a minimum of 34 units completed in residence at this university;

2. A grade point average of 3.0 ("B") in all course work taken to satisfy the Master of Arts degree requirements, and grades of "C" (2.0) or better in all courses in the program;
3. Successful completion of one of the following:
  - A. EDUC 600. Master's Degree Project.  
A successful project is one which can be reported in the form of a paper and/or other media. The project proposal and the project must be approved by the student's advisor and one other professor in the College of Education and submitted in the approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project.  
OR
  - B. Written comprehensive exam.  
The written comprehensive examination is designed to test the student's knowledge of the field of ESL/EFL instruction. The examination is offered once each quarter and during the summer session. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student may take the examination (or any part of it) three times. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.
4. The graduation writing requirement is met upon successful completion of 4A or 4B above;
5. Completion of the Candidate Assessment Portfolio. Details of the Candidate Assessment Portfolio approval process are outlined in the program information materials. the Portfolio must be completed prior to enrollment in EDUC 600 or EESL 999.

The program may not include more than 14 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

### **Degree Requirements (48 units)**

1. EDUC 603. Effective Communication in Education (4)
  2. EDUC 605. Foundations of Education (4)
  3. EDUC 607. Introduction to Educational Research (4)
  4. EESL 536. Crosscultural Teaching (4)
  5. EESL 544. Reading Methods in TESOL (4)
  6. EESL 545. Writing Methods in TESOL (4)
  7. EESL 614. Curriculum Design in TESOL (4)
  8. EESL 615. Research in TESOL (4)
  9. EESL 670. Principles and Practice in TESOL (4)
  10. Four units chosen from:
    - EESL 678. Studies in K-12 Classroom Discourse (4)
    - EESL 679. Fieldwork: Teaching English to Speakers of Other Languages (4)
  11. Eight units from A or B which will also satisfy the graduation writing requirement:
    - A. EDUC 600. Master's Degree Project (4)
    - EESL 664. Advanced Research Methods in TESOL (4)
    - B. EESL 665. Creative Teaching in TESOL (4)
    - EESL 999. Comprehensive Examination (0) plus four units of electives listed below.
- Electives:
- EDCI 624. Advanced Teaching Methodology (4)
  - EELB 606. Theory and Practice in Teaching Bilingual Students I (4)
  - EELB 630. Children's Literature in the Classroom (4)
  - ENG 621. Approaches to Imaginative Writing (4)
  - ERDG 620. Foundations of Reading and Writing (4)
  - ERDG 642. Images of Culture through Children's Literature (4)
  - ERDG 658. Literacy and Language Processes (4)

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- ESEC 511. Theory and Practice for English Language Development (ELD) (4)
- ETEC 500. Foundations in Instructional Technology (4)
- ETEC 544. Design and Development of Instructional Materials I (4)
- ETEC 634. Information Systems in Education (4)
- ETEC 674. Telecommunications in Education (4)
- EVOC 504. Principles of Adult Education (4)
- HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
- HIST 567. The Asian-American Experience (4)
- or other upper-division graduate courses appropriate to this concentration, subject to advance approval by the Education Graduate Committee and TESOL coordinator.

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**ADAPTED PHYSICAL EDUCATION SPECIALIST CREDENTIAL****Requirements (16 units)**

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**Admission to the Program**

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the adapted physical education specialist credential program requires the following:

1. A valid California teaching credential authorizing the teaching of physical education.

**Recommendation for the Adapted Physical Education Credential:**

In addition to successfully completing the adapted physical education program requirements and credential coursework, the candidate must successfully complete requirements to receive a recommendation for the Adapted Physical Education Specialist Credential including a final written exit examination and exit interview with the adapted physical education coordinator at CSUSB. See Page 237 for requirements.

**Credential Requirements (16 units)**

Upper-division requirements (16 units)

1. ESPE 530. Psychology and Education of Exceptional Individuals (4)
2. KINE 330. Movement Skill Assessment for Individuals with Disabilities (4)
3. Eight units chosen from:
  - KINE 331A. Topics in Adapted Physical Education: Adapted aquatics (2)
  - KINE 331B. Topics in Adapted Physical Education: Physical Disabilities (2)
  - KINE 331C. Topics in Adapted Physical Education: Disabilities in Learning (2)
  - KINE 331D. Topics in Adapted Physical Education: Disabilities in Communication (2)
  - KINE 331E. Topics in Adapted Physical Education: Severe and Profound Disabilities (2)

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**ADMINISTRATIVE SERVICES PRELIMINARY CREDENTIAL****Requirements (37 units)**

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This program is under revision due to new state licensing standards and requirements. See the Department for information on the new curriculum and course requirements.

**Admission to the Program**

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the

Administrative Services Preliminary Credential program requires the following:

1. An application for admission to the program must be submitted;
2. A 3.0 ("B") grade point average in all course work taken in education;
3. Completion of the graduate entrance writing requirement;
4. One year of full-time credentialed experience, school-related nursing and/or counseling experience. A valid California teaching, pupil personnel, health services credential, or full-time designated subject credential (with B.A.);
5. Successful completion of the California Basic Educational Skills Test (CBEST).

**Recommendation for the Credential**

To be eligible to be recommended for the credential, a candidate must:

1. Complete the California Commission on Teacher Credentialing competencies dealing with mainstreaming of special education students;
2. Successfully complete all program requirements;
3. Obtain a recommendation from the program committee.

**Credential Requirements (37 units)**

Prerequisite/corequisite courses (6 units)

1. EADM 601. Educational Leadership and Ethics (4)
2. EADM 603. Application of Leadership, Ethics and Organizational Theory (2)

Core Courses (31 units)

1. EADM 607. Culture, Politics and Communication in a Diverse Society (4)
2. EADM 610. Supervision and Evaluation of Teachers (4)
3. EADM 617. Cultural and Political Experiences (2)
4. EADM 619. Policy, Governance and Legal Aspects of Education (4)
5. EADM 620. Practicum in Educational Administration (3)
6. EADM 622. Curriculum, Instruction and Assessment (4)
7. EADM 624. Organizational, Personnel and Fiscal Management (4)
8. EADM 627. Portfolio Evaluation (2)
9. EADM 621A. Fieldwork in Educational Administration I (2)
10. EADM 621B. Fieldwork in Educational Administration II (2)

**Note:** Students must see program coordinator/advisor for recommended sequence of program.

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**ADMINISTRATIVE SERVICES PRELIMINARY (INTERNSHIP) CREDENTIAL****Requirements (37 units)**

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**Admission to the Program**

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Administrative Services Preliminary (Internship) Credential program requires the following:

1. An application for admission to the program must be submitted;
2. A valid California teaching or pupil personnel or health services credential;
3. A 3.0 ("B") grade point average in all coursework taken in education;
4. Completion of the graduate entrance writing requirement;
5. Verification of three full time years of teaching, counseling, or other certified work;
6. A valid California teaching, pupil personnel or health services credential or full time designated subject credential (with B.A.);
7. A contract between the student and the appropriate school board defining the administrative position;

- Students must enroll in EADM 630 each quarter they remain in the program and complete the program within two years;
- The internship credential from the Commission for Teacher Credentialing.

### Recommendation for the Credential

Recommendation to be recommended for the administrative services preliminary credential, a candidate must:

- Successfully complete the regular program for the Preliminary Administrative Services Credential.

### Credential Requirements (37 units)

Prerequisite/corequisite courses (6 units)

- EADM 601. Educational Leadership and Ethics (4)
- EADM 603. Application of Leadership, Ethics and Organizational Theory (2)

Core Courses (31 units)

- EADM 607. Culture, Politics and Communication in a Diverse Society (4)
- EADM 610. Supervision and Evaluation of Teachers (4)
- EADM 617. Cultural and Political Experiences (2)
- EADM 619. Policy, Governance and Legal Aspects of Education (4)
- EADM 620. Practicum in Educational Administration (3)
- EADM 622. Curriculum, Instruction and Assessment (4)
- EADM 624. Organizational, Personnel and Fiscal Management (4)
- EADM 627. Portfolio Evaluation (2)
- EADM 630. Internship Fieldwork in Educational Administration (4)

**Note:** Students must see program coordinator/advisor for recommended sequence of program.

## ADMINISTRATIVE SERVICES PROFESSIONAL CREDENTIAL PROGRAM

### Requirements (18 units)

This program is under revision due to new state licensing standards and requirements. See the Department for information on the new curriculum and course requirements.

### Admission to the Program

In addition to the general requirements of the university for admission as a postbaccalaureate student, admission to the Professional Administrative Services Credential program requires the following:

- Application for admission to the program;
- A valid clear Preliminary Services Credential;
- Verification of present employment in an administrative position;
- A 3.0 ("B") grade point average in all graduate work;
- An Individual Program Plan (IP) on file.

### Recommendation for the Professional Credential

In order to be recommended for a credential, the student must have:

- A minimum of two years of full-time school administrative experience in the public schools, or private schools or equivalent;
- Completed all program requirements while employed in a full-time school administrative position.

### Credential Requirements (18 units)

- EADM 681. Vision and Learning (3)
- EADM 682. Culture for Student Learning and Professional Growth (3)
- EADM 683. Organization and Resource Management (3)
- EADM 684. Collaboration with Diverse Families and Communities (3)
- EADM 685. Leadership Capacity and Ethics (3)

- EADM 686. Factors of School Context (3)

The program includes development of an individual induction plan for each candidate based on a needs assessment and includes a mentoring component.

Students with five or more years experience in educational administration must register for courses but may document proficiency on administrative services standards as an alternative to completing course assignments with consent of the program coordinator.

## PRELIMINARY LEVEL I EDUCATION SPECIALIST CREDENTIAL: EARLY CHILDHOOD SPECIAL EDUCATION WITH EL AUTHORIZATION

### Requirements (61 units)

Completion of this credential certifies teachers to work with children from birth through six years of age who have disabilities or who are at risk of acquiring disabilities.

### Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Preliminary Level I Education Specialist Credential: Early Childhood Special Education Program requires the following:

- Official admission to the university;
- Application for admission to the College of Education for the Preliminary Level I Education Specialist Credential: Early Childhood Special Education;
- Documentation of a minimum of 45 hours of experience in an Early Childhood Special Education Program setting;
- Written verification of passing score on the California Basic Educational Skills Test (CBEST);
- Original verification of a negative tuberculin examination within the last four years;
- Establishment of competency in early childhood by the completion of the following courses or their equivalent. Some course requirements may be substituted by work experience if approved by the department chair.
  - HD 270. Infant and Toddler Development (5)
  - HD 280. Early Childhood Development (5)
  - HD 281. Guidance of Young Children (4)
  - HD 291. Interactions with Young Children: Laboratory (2)
  - HD 282. Early Childhood Curriculum and Programs (4)
  - HD 292. Curriculum and Programs: Laboratory (2)
- Application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
- Attendance at a mandatory Special Education group advising session;
- Consultation with assigned faculty advisor to complete Advising Confirmation form.

### Recommendation for the Credential

In addition to the program admission requirements and Level I credential course work, the candidate must successfully complete the following requirements in order to be recommended for the Preliminary Level I Education Specialist Credential: Early Childhood Special Education.

- Completion of the upper division writing requirement by one of the following:
  - A. Completion, with a grade of "B" (3.0) or better, in one of the upper division writing courses taken at this university:
    - EDUC 306. Expository Writing for Education (4)
    - ENG 306. Expository Writing (4)
    - HUM 306. Expository Writing for the Humanities (4)
    - MGMT 306. Expository Writing for Administration (4)
    - NSCI 306. Expository Writing for the Natural Sciences (4)

- SSCI 306. Expository Writing for the Social Sciences (4)
- B. Completion, with a grade of "B" (3.0) or better, of an equivalent advanced expository writing course at another college or university;
- C. Satisfactory completion of the Writing Requirement Exemption Examination (WREE) offered at this university;
- D. A passing score on the written portion of the CBEST;
- Note:** CBEST exam does not meet the graduate writing requirement for the Master of Arts degree.
2. Completion of the U.S. Constitution requirement by one of the following:
- A. HIST 146. American Civilization (4)
- B. HIST 200. United States History to 1877 (4)
- C. HIST 540. Constitutional History of the United States (4)
- D. PSCI 203. American Government (4)
- E. PSCI 410. American Constitutional Law (4)
- F. PSCI 411. The Bill of Rights (4)
- G. Successful completion of an examination administered through the College of Extended Learning;
- H. Approved U.S. Constitution course substitution from another university;
3. Original verification of passing status and scores on the California Basic Educational Skills Test (CBEST);
4. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than "B-;"
5. Verification of Employment as an Education Specialist form (CL-777.1) from the employing school district and signed by an authorized district personnel officer.
- Note:** Candidates who do not provide form CL-777.1 will be issued a Certificate of Eligibility which will authorize the candidate to seek initial employment as an Education Specialist but will not authorize teaching service.

### Credential Requirements

#### Level I Credential Courses

Completion of the following courses with a grade point average of 3.0 ("B") or better and no grade lower than "B-:"

1. EELB 315. Reading/Language Arts Curriculum and Pedagogy (3)
2. EELB 317. Educational Psychology for a Diverse Society (4)
3. ESPE 515. Language and Literacy for Children Under Five With Special Needs (4)
4. ESPE 529. Introductory Methods for Special Education (4) (with a grade of "B" or better)
5. ESPE 530. Psychology and Education of Exceptional Individuals (4) (with a grade of "B" or better)
6. ESPE 637. Assessment and Evaluation (4)
7. ESPE 650. Development and Assessment of Young Children with Disabilities (4)
8. ESPE 651. Curricular Strategies for Students with Moderate/Severe Disabilities (4)
9. ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)
10. ESPE 665. Curriculum and Methods in Special Education: Early Childhood Special Education (4)
11. ESPE 679F. Special Education Fieldwork: Early Childhood Special Education I (4) for a total of (8)
12. HD 240. Introduction to Child Development (4) and an appropriate observation course (HD 245, 246 or 247) (2)

13. One four-unit HD course with approval of advisor
14. PSYC 305. Psycholinguistics (4)

Upon completion of competency in early childhood content area, U.S. Constitution, and Level I Special Education program requirements, students need to apply for a Preliminary Level I Education Specialist Credential or Certificate of Eligibility. Official transcripts from all colleges or universities attended other than California State University, San Bernardino, must be submitted to the Credentials Office along with the application for the Education Specialist Credential or Certificate of Eligibility.

The State of California requires students to enroll in the Professional Clear Level II Education Specialist Credential program within 120 working days of completion of the preliminary credential program requirements and issuance of the Preliminary Level I Education Specialist Credential. Within five years of issuance of the preliminary credential, students must complete Level II Education Specialist Program requirements in order to obtain the Professional Clear Level II Education Specialist Credential.

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### PROFESSIONAL LEVEL II EDUCATION

#### SPECIALIST CREDENTIAL: EARLY CHILDHOOD SPECIAL EDUCATION WITH EL AUTHORIZATION

#### Requirements (24-28 units)

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##### Admission to the Program

The State of California requires students to enroll in the Professional Clear Level II Education Specialist Credential program within 120 working days of completion of the preliminary credential program requirements and issuance of the Preliminary Level I Education Specialist Credential. Within five years of issuance of the preliminary credential, students must complete the Level II Education Specialist Program requirements in order to obtain the Professional Clear Level II Education Specialist Credential. Unconditional admission to the Professional Clear Level II Education Specialist Credential: Early Childhood Special Education program requires the following:

1. Official admission to the university;
2. Submission of a valid Preliminary Level I Education Specialist Credential: Early Childhood;
3. Application to ESPE 633. Reflective Inquiry Seminar and Induction Plan. Applications are available in the Special Education Office, CE-102, (909) 537-7406.

##### Recommendation for the Credential

In addition to the program admission requirements and Level II credential course work, the candidate must successfully complete the following requirements in order to be recommended for the Professional Clear Level II Education Specialist Credential:

1. One of the following to fulfill the health education requirement (with a grade of "C" or better):  
HSCI 332. Health Education in the Elementary School (4)  
HSCI 540. School Health Program Practices (4)
2. Verification of current and valid CPR certification for infants/adolescents/adults;
3. The following are required to fulfill the computer literacy requirement (with a grade of "B-" or better):  
ETEC 537. Computer Based Technology in Education I (2)  
ETEC 546. Computer Based Technology in Education II (4)
4. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than a "B-;"
5. Verification of a minimum of two years of successful full-time teaching experience while holding the Preliminary Level I Education Specialist Credential: Early Childhood Special Education.



**Level II Credential Coursework (24-28 units)**

1. EELB 640. The Education of K-12 English Language Learners (4)
2. ESPE 633. Reflective Inquiry Seminar and Induction Plan (4)
3. ESPE 635. Effective Communication with Professionals and Families (4)
4. ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)
4. ESPE 685. Advanced Behavior Management (4)
5. Four to eight units chosen from:
  - ESPE 694A. Special Education Leadership Evaluation and Outcomes (4)
  - ESPE 694B. Special Education Leadership Evaluation and Outcomes (8)

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**INTERNSHIP EDUCATION SPECIALIST  
CREDENTIAL: EARLY CHILDHOOD SPECIAL  
EDUCATION WITH EL AUTHORIZATION**


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**Requirements (61-85 units)**

The Early Childhood Special Education Intern Program is an alternative preparation program in which interns are employed full-time as teachers for children who are between birth and six years of age and have disabilities. While enrolled in this program, students earn the preliminary Level I Education Specialist Credential for Early Childhood Special Education. The program must be completed in five consecutive quarters. Interns earn tenure credit in their districts and receive ongoing supervision/support from a university supervisor and district support provider. Interested applicants should contact the Early Childhood Special Education Intern Coordinator for program information, including the program course sequence and program costs.

**Admission to the Program**

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Internship Education Specialist Credential program requires the following:

1. Written verification of passing score for the California Basic Educational Skills Test (CBEST);
2. Verification of a plan to complete subject matter coursework. Work experience can be substituted for some of the following courses:
  - HD 270. Early Childhood Development (5)
  - HD 280. Early Childhood Development (5)
  - HD 281. Guidance of Young Children (4)
  - HD 291. Interactions with Young Children: Laboratory (2)
  - HD 282. Early Childhood Curriculum and Programs (4)
  - HD 292. Curriculum and Programs: Laboratory (2);
3. Three written recommendations, including at least one from immediate supervisor;
4. Interview by university/school district representatives.

**Recommendation for the Internship Education  
Specialist Credential: Early Childhood Special  
Education**

1. Submission of application for the Internship Education Specialist Credential: Early Childhood Special Education;
2. Employment as a class teacher for children between birth and five years of age in a participating school district, verified by district intern contract;
3. Verification of a negative tuberculin examination within the last four years;
4. Submission of an application for a Certificate of Clearance or evidence of a credential or permit authorizing public school teaching in California;

5. Completion of the U.S. Constitution requirement by one of the following:
  - A. HIST 146. American Civilization (4)
  - B. HIST 200. United States History to 1877 (4)
  - C. HIST 540. Constitutional History of the United States (4)
  - D. PSCI 203. American Government (4)
  - E. PSCI 410. American Constitutional Law (4)
  - F. PSCI 411. The Bill of Rights (4)
  - G. Successful completion of an examination administered through the College of Extended Learning;
  - H. Approved U.S. Constitution course substitution at another university.

While enrolled in the program, students are required to register for courses during five consecutive quarters. During fall, winter, and spring quarters, students enroll each quarter in two courses and one eight-unit fieldwork course. During summer quarter, students enroll in three courses. All students are required to meet with the program coordinator and complete a Program Coursework Plan prior to beginning their course of study.

**Credential Requirements****Level I Courses (61-85 units)**

Completion of the following courses with a grade point average of 3.0 ("B") or better and no grade lower than "B-:"

1. EELB 315. Reading/Language Arts Curriculum and Pedagogy (3)
2. EELB 317. Educational Psychology for a Diverse Society (4)
3. ESPE 515. Language and Literacy for Children Under Five With Special Needs (4)
4. ESPE 529. Introductory Methods for Special Education (4) (with a grade of "B" or better)
5. ESPE 530. Psychology and Education of Exceptional Individuals (4) (with a grade of "B" or better)
6. ESPE 637. Assessment and Evaluation (4)
7. ESPE 650. Development and Assessment of Young Children with Disabilities (4)
8. ESPE 651. Curricular Strategies for Students with Moderate/Severe Disabilities (4)
9. ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)
10. ESPE 665. Curriculum and Methods in Special Education: Early Childhood Special Education (4)
11. ESPE 680C. Intern Teaching: Special Education (8) for a total of (8-32)
12. HD 240. Introduction to Child Development (4) and an appropriate observation course (HD 245, 246 or 247) (2)
13. One four-unit HD course with approval of advisor
14. PSYC 305. Psycholinguistics (4)

Upon completion of competency in early childhood content area, U.S. Constitution, and Level I Special Education program requirements, students need to apply for a Preliminary Level I Education Specialist Credential or Certificate of Eligibility. Official transcripts from all colleges or universities attended other than California State University, San Bernardino, must be submitted to the Credentials Office along with the application for the Education Specialist Credential or Certificate of Eligibility.

The State of California requires students to enroll in the Professional Clear Level II Education Specialist Credential program within 120 working days of completion of the preliminary credential program requirements and issuance of the Preliminary Level I Education Specialist Credential. Within five years of issuance of the preliminary credential, students must complete Level II Education Specialist Program requirements in order to obtain the Professional Clear Level II Education Specialist Credential.

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**PRELIMINARY LEVEL I EDUCATION  
SPECIALIST CREDENTIAL: MILD/MODERATE  
DISABILITIES WITH EL AUTHORIZATION  
Requirements (43-47 units)**

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**Admission to the Program**

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Preliminary Level I Education Specialist Credential: Mild/Moderate Disabilities Program requires the following:

1. Official admission to the university;
2. Application for admission to the College of Education for the Preliminary Level I Education Specialist Credential: Mild/Moderate Disabilities Program;
3. Submit documentation of a minimum of 45 hours in a K-12 classroom;
4. Written verification of having taken the California Basic Educational Skills Test (CBEST); (Note: Passing scores required for recommendation for the credential.)
5. Verification of a negative tuberculin examination within the last four years;
6. Verification for appropriate subject matter competency;
7. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
8. Attend mandatory Special Education group advising session;
9. Meet with assigned faculty advisor to complete Advising Confirmation form.

**Recommendation for the Credential**

In addition to the program admission requirements and Level I course work, the candidate must successfully complete the following requirements in order to be recommended for the Preliminary Level I Education Specialist Instruction Credential:

1. Verification of subject matter competence by one of the following:
  - A. Completion of an equivalent California-approved subject matter preparation program verified in writing by authorized personnel;
  - B. Original verification of a passing score on the appropriate subject matter examination(s);
  - C. Completion of an approved subject matter preparation program offered on this campus or an approved subject matter preparation program at another California campus, verified in writing by authorized personnel;
2. Completion of the upper division writing requirement by one of the following:
  - A. Completion, with a grade of "B" (3.0) or better, in one of the following courses taken at this university:

EDUC 306.	Expository Writing for Education (4)
ENG 306.	Expository Writing (4)
HUM 306.	Expository Writing for the Humanities (4)
MGMT 306.	Expository Writing for Administration (4)
NSCI 306.	Expository Writing for the Natural Sciences (4)
SSCI 306.	Expository Writing for the Social Sciences (4)
  - B. Completion, with a grade of "B" (3.0) or better, of an equivalent advanced expository writing course at another college or university;
  - C. Satisfactory completion of the Writing Requirement Exemption Examination (WREE) offered at this university;
  - D. A passing score on the written portion of the CBEST;

**Note:** CBEST exam does not meet the graduate writing requirement for the Master of Arts degree;

3. Completion of the U.S. Constitution requirement by one of the following:
  - A. HIST 146. American Civilization (4)
  - B. HIST 200. United States History to 1877 (4)
  - C. HIST 540. Constitutional History of the United States (4)
  - D. PSCI 203. American Government (4)
  - E. PSCI 410. American Constitutional Law (4)
  - F. PSCI 411. The Bill of Rights (4)
  - G. Successful completion of an examination administered through the College of Extended Learning;
  - H. Approved U.S. Constitution course substitution from another university;
4. Verification of passing status and scores on the California Basic Educational Skills Test (CBEST);
5. Verification of a passing score on the RICA (Reading Instruction Competence Assessment);

**Note:** Holders of a valid California teaching credential based on a baccalaureate degree and completion of a teacher education program including student teaching, will be exempt from RICA. Call the Credentials Office, (909) 537-5609, for further information.
6. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than "B-;"
7. Verification of Employment as an Education Specialist form (CL-777.1) from the employing school district and signed by an authorized district personnel officer.

**Note:** Candidates who do not provide form CL-777.1 will be issued a Certificate of Eligibility which will authorize the candidate to seek initial employment as an Education Specialist but will not authorize teaching service.

**Credential Requirements****Level I Courses (43-47 units)**

Completion of the following courses with a grade point average of 3.0 or better and no grade lower than "B-."

1. EELB 301. Growth and Development in Socio-Educational Contexts (4)
2. EELB 315. Reading/Language Arts Curriculum and Pedagogy (3)
3. EELB 317. Educational Psychology for a Diverse Society (4)
4. EELB 423. Mathematics Curriculum and Pedagogy (4)
5. ESPE 529. Introductory Methods for Special Education (4)
6. ESPE 530. Psychology and Education of Exceptional Individuals (4)
7. ESPE 624. Managing Learning and Social Communities (4)
8. ESPE 637. Assessment and Evaluation (4)
9. ESPE 655. Curriculum and Methods in Special Education: Language Arts (4)
10. ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)
11. One of the following field experience courses:
  - ESPE 609A. General and Special Education Field Experiences: Mild/Moderate Disabilities (8)
  - ESPE 679A. Special Education Fieldwork: Mild to Moderate Disabilities I (4)

**Note:** ESPE 679A is to be taken only by those students who hold a valid California Preliminary/Professional Clear Multiple Subject or Single Subject Credential.

Upon completion of subject matter competence, U.S. Constitution and Level I Special Education program requirements, students need to apply for a Preliminary Level I Education Specialist Credential or Certificate of Eligibility. Official transcripts from all college and universities attended other than California State University, San Bernardino, must be submitted to the Credentials Office along with the

application for the Education Specialist Credential or the Certificate of Eligibility. The State of California requires students to enroll in the Professional Clear Level II Education Specialist Credential program within 120 working days of completion of the preliminary credential program requirements and issuance of the Preliminary Level I Education Specialist Credential. Within five years of issuance of the preliminary credential, students must complete Level II Education Specialist Program requirements in order to obtain the Professional Clear Level II Education Specialist Credential.

## **PROFESSIONAL CLEAR LEVEL II EDUCATION SPECIALIST CREDENTIAL: MILD/MODERATE DISABILITIES WITH EL AUTHORIZATION**

### **Requirements (28-32 units)**

#### **Admission to the Program**

The State of California requires students to enroll in the Professional Clear Level II Education Specialist Credential program within 120 working days of completion of the preliminary credential program requirements and issuance of the Preliminary Level I Education Specialist Credential. Within five years of issuance of the preliminary credential, students must complete the Level II Education Specialist program requirements in order to obtain the Professional Clear Level II Education Specialist Credential. Unconditional admission to the Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities program requires the following:

1. Official admission to the university;
2. Submission of a valid Preliminary Level I Education Specialist Credential;
3. Application to ESPE 633. Reflective Inquiry Seminar and Induction Plan. Applications can be obtained from the Special Education Office, CE-102, (909) 537-7406.

#### **Recommendation for the Credential**

In addition to the program admission requirements and credential course work, the candidate must successfully complete the following requirements in order to be recommended for the Professional Clear Level II Education Specialist Credential:

1. One of the following to fulfill the health education requirement (with a grade of "C" or better):  
HSCI 332. Health Education in the Elementary School (4)  
HSCI 540. School Health Program Practices (4)
2. Verification of current and valid CPR certification for infants/ adolescents/adults;
3. The following are required to fulfill the computer literacy requirement (with a grade of "B-" or better):  
ETEC 537. Computer Based Technology in Education I (2)  
ETEC 546. Computer Based Technology in Education II (4)
4. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than a "B-;"
5. Verification of a minimum of two years of successful full-time teaching experience while holding the Preliminary Level I Education Specialist Credential.

#### **Level II Credential Courses (28-32 units)**

1. EELB 640. The Education of K-12 English Language Learners (4)
2. ESPE 633. Reflective Inquiry Seminar and Induction Plan (4)
3. ESPE 635. Effective Communication with Professionals and Families (4)
4. ESPE 649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation (4)

5. ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)
6. ESPE 685. Advanced Behavior Management (4)
7. Four to eight units chosen from:  
ESPE 694A. Special Education Leadership Evaluation and Outcomes (4)  
ESPE 694B. Special Education Leadership Evaluation and Outcomes (8)

## **INTERNSHIP EDUCATION SPECIALIST CREDENTIAL: MILD/MODERATE DISABILITIES WITH EL AUTHORIZATION**

### **Requirements (67-115 units)**

The Mild/Moderate Disabilities Intern Program is an alternative preparation program in which interns are employed full-time as special day class teachers for pupils with mild/moderate disabilities while earning the Professional Clear Level II Education Specialist Credential for Mild/Moderate Disabilities and completing all required course work for the English Language (EL) Authorization. All requirements must be completed in two years.

Interns earn tenure credit in their districts and receive ongoing supervision/support from a university supervisor and district support provider. Interested applicants should contact the Mild/Moderate Disabilities Intern Coordinator for program information, including the two-year program course sequence and program costs. Grant funds may be available for fees and book stipends.

**Note:** To earn the M.A. in Education, Special Education Option, students must complete an additional four courses (16 units); and project (4 units), or comprehensive examination (0 units) plus an elective (4 units).

#### **Admission to the Program**

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Internship Education Specialist Credential program requires the following:

1. Written verification of passing score for the California Basic Educational Skills Test (CBEST);
2. Verification of subject matter competence by one of the following:
  - a. completion of an equivalent California-approved subject matter preparation program verified in writing by authorized personnel;
  - b. written verification of a passing score on the PRAXIS or CSET: MSAT and/or SSAT examination;
  - c. completion of an approved subject matter preparation program offered on this campus or an approved subject matter preparation program at another California campus, verified in writing by authorized personnel;
3. Preparation to teach English learners must be verified by one of the following:
  - a. Pre-service EL coursework/instruction
  - b. Valid California Credential with EL Authorization
  - c. CLAD/BCLAD Certification
4. Three written recommendations, including at least one from immediate supervisor;
5. Interview by university/school district representatives.

#### **Recommendation for the Internship Education Specialist Credential: Mild/Moderate Disabilities**

1. Submission of application for the Internship Education Specialist Credential: Mild/Moderate Disabilities;
2. Employment as a special day class teacher for pupils with mild/moderate disabilities in a participating school district, verified by district intern contract;



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3. Verification of a negative tuberculin examination within the last four years;
4. Submission of an application for a Certificate of Clearance or evidence of a credential or permit authorizing public school teaching in California;
5. Completion of the U.S. Constitution requirement by one of the following:
  - A. HIST 146. American Civilization (4)
  - B. HIST 200. United States History to 1877 (4)
  - C. HIST 540. Constitutional History of the United States (4)
  - D. PSCI 203. American Government (4)
  - E. PSCI 410. American Constitutional Law (4)
  - F. PSCI 411. The Bill of Rights (4)
  - G. Successful completion of an examination administered through the College of Extended Learning;
  - H. Approved U.S. Constitution course substitution at another university.

**Recommendation for the Professional Clear Education Specialist Credential: Mild/Moderate Disabilities**

In addition to credential and CLAD course work, candidates must successfully complete the following exit requirements to be recommended for the Professional Clear Education Specialist Credential: Mild/Moderate Disabilities:

1. Completion of the upper division writing requirement by one of the following:
  - A. Completion, with a grade of "B" (3.0) or better, of one of the following courses taken at this university:
    - EDUC 306. Expository Writing for Education (4)
    - ENG 306. Expository Writing (4)
    - HUM 306. Expository Writing for the Humanities (4)
    - MGMT 306. Expository Writing for Administration (4)
    - NSCI 306. Expository Writing for the Natural Sciences (4)
    - SSCI 306. Expository Writing for the Social Sciences (4)
  - B. Completion with a grade of "B" (3.0) or better, of an equivalent advanced expository writing course at a college or university;
  - C. Satisfactory completion of the Writing Requirement Exemption Examination (WREE) offered at this university;
  - D. A passing score on the written portion of the CBEST;

**Note:** CBEST exam does not meet the graduate writing requirement for the Master of Arts degree.
2. One of the following to fulfill the health education requirement (with a grade of "C" or better):
  - HSCI 332. Health Education in the Elementary School (4)
  - HSCI 540. School Health Programs and Practices (4)
3. Verification of current and valid CPR certification for infants/adolescents/adults;
4. The following are required to fulfill the computer literacy requirement (with a grade of "B-" or better):
  - ETEC 537. Computer Based Technology in Education I (2)
  - ETEC 546. Computer Based Technology in Education II (4)
5. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than a "B-;"
6. Verification of a passing score on the RICA (Reading Instruction Competence Assessment).

**Note:** Holders of a valid California teaching credential based on a baccalaureate degree and completion of a teacher education program including student teaching, will be exempt from RICA. Contact the Credentials Office for further information, (909) 537-5609.

**Credential Courses (67-115 units)**

Completion of the following courses with a grade point average of 3.0 ("B") or better and no grade lower than "B-:"

1. EELB 315. Reading/Language Arts Curriculum and Pedagogy (3)
2. EELB 423. Mathematics Curriculum and Pedagogy (4)
3. EELB 640. The Education of K-12 English Language Learners (4)
4. ESPE 529. Introductory Methods for Special Education (4)
5. ESPE 530. Psychology and Education of Exceptional Individuals (4)
6. ESPE 624. Managing Learning and Social Communities (4)
7. ESPE 635. Effective Communication with Professionals and Families (4)
8. ESPE 637. Assessment and Evaluation (4)
9. ESPE 649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation (4)
10. ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)
11. ESPE 655. Curriculum and Methods in Special Education: Language Arts (4)
12. ESPE 656. Curriculum and Methods in Special Education: Core Subjects (4)
13. ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)
14. ESPE 680A. Intern Teaching: Special Education (8) for a total of (8-48)
15. ESPE 685. Advanced Behavior Management (4)
16. Four to eight units chosen from:
  - ESPE 694A. Special Education Leadership Evaluation and Outcomes (4)
  - ESPE 694B. Special Education Leadership Evaluation and Outcomes (8)

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**PRELIMINARY LEVEL I EDUCATION  
SPECIALIST CREDENTIAL:  
MODERATE/SEVERE DISABILITIES  
WITH EL AUTHORIZATION  
Requirements (48-52 units)**

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**Admission to the Program**

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Preliminary Level I Education Specialist Credential: Moderate/ Severe Disabilities Program with EL Authorization requires the following:

1. Official admission to the university;
2. Application for admission to the College of Education for the Preliminary Level I Education Specialist Instruction Credential;
3. Submit documentation of a minimum of 45 hours in a K-12 classroom;
4. Written verification of having taken the California Basic Educational Skills Test (CBEST);
5. Original verification of a negative tuberculin examination within the last four years;
6. Verification for the appropriate subject matter competency;
7. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
8. Attend mandatory Special Education group advising session;
9. Meet with assigned faculty advisor to complete Advising Confirmation form.



## Recommendation for the Credential

In addition to the program admission requirements and Level I course work, the candidate must successfully complete the following requirements in order to be recommended for the Preliminary Level I Education Specialist Credential:

1. Verification of subject matter competence by one of the following:
  - A. Completion of an equivalent California-approved subject matter preparation program verified in writing by authorized personnel;
  - B. Original verification of a passing score on the appropriate subject matter examination(s);
  - C. Completion of an approved subject matter preparation program offered on this campus or an approved subject matter preparation program at another California campus, verified in writing by authorized personnel;
2. Completion of the upper division writing requirement by one of the following:
  - A. Completion, with a grade of "B" (3.0) or better, in one of the following courses taken at this university:
 

EDUC 306.	Expository Writing for Education (4)
ENG 306.	Expository Writing (4)
HUM 306.	Expository Writing for the Humanities (4)
MGMT 306.	Expository Writing for Administration (4)
NSCI 306.	Expository Writing for the Natural Sciences (4)
SSCI 306.	Expository Writing for the Social Sciences (4)
  - B. Completion, with a grade of "B" (3.0) or better, of an equivalent advanced expository writing course at another college or university;
  - C. Satisfactory completion of the Writing Requirement Exemption Examination (WREE) offered at this university;
  - D. A passing score on the written portion of the CBEST;

**Note:** CBEST exam does not meet the graduate writing requirement for the Master of Arts degree.
3. Completion of the U.S. Constitution requirement by one of the following:
  - A. HIST 146. American Civilization (4)
  - B. HIST 200. United States History to 1877 (4)
  - C. HIST 540. Constitutional History of the United States (4)
  - D. PSCI 203. American Government (4)
  - E. PSCI 410. American Constitutional Law (4)
  - F. PSCI 411. The Bill of Rights (4)
  - G. Successful completion of an examination administered through the College of Extended Learning;
  - H. Approved U.S. Constitution course substitution from another university;
4. Original verification of passing status and scores on the California Basic Educational Skills Test (CBEST);
5. Original verification of a passing score on the RICA (Reading Instruction Competence Assessment);
 

**Note:** Holders of a valid California teaching credential based on a baccalaureate degree and completion of a teacher education program including student teaching, will be exempt from RICA. Call the Credentials Office (909) 537-5609, for further information.
6. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than "B-;"
7. Verification of Employment as an Education Specialist form (CL-777.1) from the employing school district and signed by an authorized district personnel officer.

**Note:** Candidates who do not provide form CL-777.1 will be issued a Certificate of Eligibility which will authorize the candidate to seek initial employment as an Education Specialist but will not authorize teaching service.

## Credential Requirements

### Level I Credential Courses

Completion of the following courses with a grade point average of 3.0 ("B") or better and no grade lower than "B-."

1. EELB 301. Growth and Development in Socio-Educational Contexts (4)
2. EELB 315. Reading/Language Arts Curriculum and Pedagogy (3)
3. EELB 317. Educational Psychology for a Diverse Society (4)
4. EELB 423. Mathematics Curriculum and Pedagogy (4)
5. ESPE 529. Introductory Methods for Special Education (4) (to be completed with a grade of "B" or better)
6. ESPE 530. Psychology and Education of Exceptional Individuals (4) with a grade of "B" (3.0) or better
7. ESPE 624. Managing Learning and Social Communities (4)
8. ESPE 637. Assessment and Evaluation (4)
9. ESPE 651. Curricular Strategies for Students with Moderate/Severe Disabilities (4)
10. ESPE 655. Curriculum and Methods in Special Education: Language Arts (4)
11. ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)
12. One of the following:
 

ESPE 609C.	General and Special Education Field Experiences: Moderate/Severe Disabilities (8)
ESPE 679C.	Special Education Fieldwork: Moderate/Severe Disabilities I (4)

**Note:** ESPE 679C is to be taken only by those students who hold a valid California Preliminary/Professional Clear Multiple Subject or Single Subject Credential.

Upon completion of subject matter competence, U.S. Constitution and Level I Special Education program requirements, students need to apply for a Preliminary Level I Education Specialist Credential or Certificate of Eligibility. Official transcripts from all colleges or universities attended other than California State University, San Bernardino, must be submitted to the Credentials Office along with the application for the Education Specialist Credential or Certificate of Eligibility. The State Of California requires students to enroll in the Professional Clear Level II Education Specialist Credential program within 120 working days of completion of the preliminary credential program requirements and issuance of the Preliminary Level I Education Specialist Credential. Within five (5) years of issuance of the preliminary credential, students must complete Level II Education Specialist Program requirements in order to obtain the Professional Clear Level II Education Specialist Credential.

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## PROFESSIONAL CLEAR LEVEL II EDUCATION SPECIALIST CREDENTIAL: MODERATE/SEVERE DISABILITIES WITH EL AUTHORIZATION

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### Requirements (28-32 units)

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#### Admission to the Program

The State of California requires students to enroll in the Professional Clear Level II Education Specialist Credential program within 120 working days of completion of the preliminary credential program requirements and issuance of the Preliminary Level I Education Specialist Credential. Within five years of issuance of the preliminary

credential, students must complete the Level II Education Specialist Program requirements in order to obtain the Professional Clear Level II Education Specialist Credential. Unconditional admission to the Professional Clear Level II Education Specialist Credential: Moderate/ Severe Disabilities program requires the following:

1. Official admission to the university;
2. Submission of a valid Preliminary Level I Education Specialist Credential;
3. Application to ESPE 633. Reflective Inquiry Seminar and Induction Plan. Applications are available in the Special Education Office, CE-102, (909) 537-7406.

### Recommendation for the Credential

In addition to the program admission requirements and credential course work, the candidate must successfully complete the following requirements in order to be recommended for the Professional Clear Level II Education Specialist Credential:

1. One of the following to fulfill the health education requirement (with a grade of "C" or better):  
HSCI 332. Health Education in the Elementary School (4)  
HSCI 540. School Health Program Practices (4)
2. Verification of current and valid CPR certification for infants/adolescents/adults;
3. The following are required to fulfill the computer literacy requirement (with a grade of "B-" or better):  
ETEC 537. Computer Based Technology in Education I (2)  
ETEC 546. Computer Based Technology in Education II (4)
4. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than a "B-;"
5. Verification of a minimum of two years of successful full-time teaching experience while holding the Preliminary Level I Education Specialist Credential.

### Level II Credential Courses (28-32 units)

Completion of the following courses with a grade point average of 3.0 (B") or better and no grade lower than "B-."

1. EELB 640. The Education of K-12 English Language Learners (4)
2. ESPE 633. Reflective Inquiry Seminar and Induction Plan (4)
3. ESPE 635. Effective Communication with Professionals and Families (4)
4. ESPE 649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation (4)
5. ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)
6. ESPE 685. Advanced Behavior Management (4)
7. Four to eight units chosen from:  
ESPE 694A. Special Education Leadership Evaluation and Outcomes (4)  
ESPE 694B. Special Education Leadership Evaluation and Outcomes (8)

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## INTERNSHIP EDUCATION SPECIALIST CREDENTIAL: MODERATE/SEVERE DISABILITIES WITH EL AUTHORIZATION

### Requirements (51-75 units)

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The Moderate/Severe Disabilities Intern Program is an alternative preparation program in which interns are employed full-time as special day class teachers for pupils with moderate/severe disabilities while earning the Preliminary Level I Education Specialist Credential for Moderate/Severe Disabilities. All requirements must be completed in five consecutive quarters. Interns earn tenure credit in their districts and receive ongoing supervision/support from a uni-

versity supervisor and district support provider. Interested applicants should contact the Moderate/Severe Disabilities Intern Coordinator for program information, including the program course sequence and program costs.

### Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Internship Education Specialist Credential program requires the following:

1. Written verification of passing score for the California Basic Educational Skills Test (CBEST);
2. Verification of subject matter competence by one of the following:
  - a. completion of an equivalent California-approved subject matter preparation program verified in writing by authorized personnel;
  - b. written verification of a passing score on the CSET or SSAT examination;
  - c. completion of an approved subject matter preparation program offered on this campus or an approved subject matter preparation program at another California campus, verified in writing by authorized personnel;
3. Preparation to teach English learners must be verified by one of the following:
  - a. Pre-service EL coursework/instruction
  - b. Valid California Credential with EL Authorization
  - c. CLAD/BCLAD Certification;
4. Three written recommendations, including at least one from immediate supervisor;
5. Interview by university/school district representatives.

### Recommendation for the Internship Education Specialist Credential: Moderate/Severe Disabilities

1. Submission of application for the Internship Education Specialist Credential: Moderate/Severe Disabilities;
2. Employment as a special day class teacher for pupils with moderate/severe disabilities in a participating school district, verified by district intern contract;
3. Verification of a negative tuberculin examination within the last four years;
4. Submission of an application for a Certificate of Clearance or evidence of a credential or permit authorizing public school teaching in California;
5. Completion of the U.S. Constitution requirement by one of the following:
  - A. HIST 146. American Civilization (4)
  - B. HIST 200. United States History to 1877 (4)
  - C. HIST 540. Constitutional History of the United States (4)
  - D. PSCI 203. American Government (4)
  - E. PSCI 410. American Constitutional Law (4)
  - F. PSCI 411. The Bill of Rights (4)
  - G. Successful completion of an examination administered through the College of Extended Learning;
  - H. Approved U.S. Constitution course substitution at another university.
6. Verification of a passing score on the RICA (Reading Instruction Competence Assessment.)  
**Note:** Holders of a valid California teaching credential based on a baccalaureate degree and completion of a teacher education program including student teaching, will be exempt from the RICA. Contact the Credentials Office for further information (909) 537-5609.

### Credential Requirements (51-75 units)

While enrolled in the program, students are required to register for five consecutive quarters. During fall, winter, spring and summer

quarters, students enroll each quarter in two courses and one eight-unit fieldwork course. All students are required to meet with the program coordinator and complete a Program Coursework Plan prior to beginning their course of study. The following Level I General Education courses need to be completed with a grade point average of 3.0 or better and no grade lower than "B-":

1. EELB 301. Growth and Development in Socio-Educational Contexts (4)
  2. EELB 315. Reading/Language Arts Curriculum and Pedagogy (3)
  3. EELB 317. Educational Psychology for a Diverse Society (4)
  4. EELB 423. Mathematics Curriculum and Pedagogy (4)
- The following Level I Special Education course needs to be completed with a grade of "B" (3.0) or better:

5. ESPE 530. Psychology and Education of Exceptional Individuals (4)

The following Level I Special Education courses need to be completed with a grade point average of 3.0 or better and no grade lower than "B-":

6. ESPE 529. Introductory Methods for Special Education (4)
7. ESPE 624. Managing Learning and Social Communities (4)
8. ESPE 637. Assessment and Evaluation (4)
9. ESPE 651. Curricular Strategies for Students with Moderate to Severe Disabilities (4)
10. ESPE 655. Curriculum and Methods in Special Education: Language Arts (4)
11. ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)
12. ESPE 680B. Intern Teaching: Special Education (8) for a total of (8-32)

Upon completion of competency in early childhood content area, U.S. Constitution, and Level I Special Education program requirements, students need to apply for a Preliminary Level I Education Specialist Credential or Certificate of Eligibility. Official transcripts from all colleges or universities attended other than California State University, San Bernardino, must be submitted to the Credentials Office along with the application for the Education Specialist Credential or Certificate of Eligibility.

The State of California requires students to enroll in the Professional Clear Level II Education Specialist Credential program within 120 working days of completion of the preliminary credential program requirements and issuance of the Preliminary Level I Education Specialist Credential. Within five (5) years of issuance of the preliminary credential, students must complete Level II Education Specialist Program requirements in order to obtain the Professional Clear Level II Education Specialist Credential.

## **PUPIL PERSONNEL SERVICES CREDENTIAL: SCHOOL COUNSELING**

### **Requirements (72 units)**

The program for the Pupil Personnel Services Credential is designed to fulfill all the requirements for the State of California to counsel in grades K-12. This 72-unit credential program is designed for students who are not enrolled in the M.S. in Counseling and Guidance program at California State University, San Bernardino, but who do hold a master's degree from another institution in a related discipline.

### **Admission to the Program**

In addition to the general requirements of the university, specific requirements for admission to the pupil personnel services credential program are:

1. Attend an Educational Counseling Program admission orientation meeting (call the Department of Educational Psychology and Counseling for orientation schedule);

2. Submission of an Admissions Portfolio following criteria and guidelines provided at the orientation meeting. Portfolios will be evaluated in accordance to the Educational Counseling program portfolio rubric, student will be notified as to their status to enroll in ECLG 531. Completed portfolio contains:

- a. Application and current vitae/resume;
- b. Transcripts of all higher education coursework;
- c. Written Personal Statement;
- d. Three positive recommendations from persons having knowledge of applicant's counseling potential (forms provided by program);
- e. Proof of successful completion of the California Basic Educational Skills Test (CBEST);
- f. Evidence of current negative TB skin test;
- g. Evidence of possession of a valid California teaching credential or a Certificate of Clearance for eligibility to participate in fieldwork;
- h. Completion of EDUC 306 (or its equivalent) with a grade of "B" or better (fulfills the graduate entrance writing requirement);
- i. Evidence of technological literacy in six areas: word processing, database, computer presentation, downloading, internet and email;

3. Completion of ECLG 531 with a grade of "B" (3.0) or better. Must be taken concurrently with EDUC 607.

Upon completion of the above requirements, the student's file will be reviewed by an admission committee composed of at least three faculty members of the educational counseling program. This committee will evaluate the admission folder and decide on the student's admission status. Students who do not meet admissions criteria will be notified of their deficiencies.

### **Recommendation for the Credential**

In order to be recommended for a credential, the student must have:

1. A minimum of 72 quarter units of graduate-level work, with a minimum of 32 units completed in residency at this university;
2. A grade point average of "B" (3.0) in the course work taken to satisfy the credentialing requirements, including a minimum grade of "B" in the prerequisite course, ECLG 531, and no grade below a "C" (2.0) or better in all other courses in the program;
3. Completion of a credential program plan of study, certified by a program advisor and the credentialing office of the university;
4. Completion of a final competency check through demonstrated competence by completion of the Student Outcome Assessment Professional Portfolio.

Prerequisite courses:

1. ECLG 531. Introduction to Counseling (4)  
**Note:** Must be taken concurrently with EDUC 607.
2. EDUC 306. Expository Writing for Education (4) (or its equivalent)

### **Credential requirements (72 units)**

1. EDUC 607. Introduction to Educational Research (4)
2. ECLG 619. Appraisal Procedures in Counseling (4)
3. ECLG 632. Advanced Psychological Foundations of Education (4)
4. ECLG 633. Advanced Study in Child and Adolescent Development (4)
5. ECLG 650. Applied Career Counseling (4)
6. ECLG 651. Professional School Counselor (4)
7. ECLG 654. Legal and Ethical Issues in Counseling and Guidance (4)
8. ECLG 655. Multicultural Counseling (4)
9. ECLG 656. Counseling Theories and Techniques (4)
10. ECLG 657A. Counseling Practicum (4)



11. ECLG 657B. Counseling Practicum (4)
12. ECLG 658. Consulting with Parents and Staff (4)
13. ECLG 672. Leadership, Advocacy, and Preventive Education in Counseling (4)
14. ECLG 678. Theory and Practice of Group Counseling (4)
15. ECLG 679A. Counseling Fieldwork: Multicultural (4)
16. Twelve units chosen from:
  - ECLG 679B. Counseling Fieldwork: Elementary School (4)
  - ECLG 679C. Counseling Fieldwork: Middle School (4)
  - ECLG 679D. Counseling Fieldwork: High School (4)
  - ECLG 679E. Counseling Fieldwork: Educational Institution (4)

## **PUPIL PERSONNEL SERVICES**

### **CREDENTIAL: SCHOOL PSYCHOLOGY**

#### **Requirements (51 units)**

The School Psychology program at California State University, San Bernardino provides professional preparation for the Pupil Personnel Services Credential with Specialization in School Psychology. This program is designed to meet the mandates for the Pupil Personnel Services Credential in School Psychology (PPS) established by the California Commission on Teacher Credentialing (CCTC). The program is also designed to meet the national accreditation standards of the National Association of School Psychologists (NASP) as adopted in 1984-1985 and revised in 2001.

The School Psychologist Credential program is a 51-quarter unit sequence of training designed for professionals who already possess a master's or doctoral degree in Educational Counseling, Psychology, Special Education, Education, Marriage/Family Therapy, and Social Work, or are in the final stages of training for such a discipline (e.g. final year of coursework, thesis to complete, etc.). Students must complete the common, standard courses (46 units) as well as the school psychology specialization standards courses (51 units). The sequence also includes a 1200-hour internship in a school setting.

Students who have graduated from CSU, San Bernardino with an M.S. in Counseling and Guidance degree will have already taken the common, standard coursework as part of their program. Candidates from other programs and universities will have transcripts individually evaluated to ascertain how thoroughly previous graduate work complies with the common and generic standards which are required by the state for certification. Previous course work will be substituted with appropriate verification using transcripts and course catalog descriptions from the college or university where this course work was completed. Students admitted to the School Psychology Credential Program will design a two-year schedule with their advisor to make up any course work needed to comply with the common and generic standards for the Pupil Personnel Services Credential as well as advanced coursework (51-unit sequence) which meets the state standards for school psychology specialization. Included in this sequence are 1200 hours of internship in a school setting (K-12) which are accrued year round. Students must have evidence of completing 450 clock hours of practica prior to beginning 1200 hours of internship. Supervision is provided on site a minimum of two hours per week by a credentialed school psychologist with at least three years of experience in the field. The student is also supervised on the university site two hours per week by a university faculty member during the internship. If a student intends to obtain a paid internship in school psychology, they must apply for the internship credential from the Credentials Office following the first year of study.

#### **Admission to the Program**

In addition to the general requirements of the university, specific requirements for admission to the PPS in School Psychology are:

1. Admission and acceptance to CSU, San Bernardino;

2. Current vitae resume;
3. Current sealed transcript which verifies an M.A., M.S. or Ph.D. in Counseling or a related field;
4. Writing sample (include an APA-style graduate level paper which indicates the applicant's competency in writing);
5. Application and personal statement;
6. Two reference forms and letters of recommendation from persons having knowledge of the applicant's potential as a school psychologist, sent independently to the program director;
7. Proof of passing the California Basic Educational Skills Test (CBEST);
8. Evidence of possession of professional liability insurance (may be provided once accepted into program);
9. Evidence of possession of a valid California teaching credential, PPS in School Counseling, or a Certificate of Clearance for eligibility to participate in fieldwork;
10. Evidence of current negative TB skin test;
11. Evidence of technological literacy in six areas: word processing, database, computer presentation, downloading, internet, and email.

Upon completion of the above requirements, the student's file will be reviewed by an admission committee composed of at least three members of the educational counseling/school psychology faculty. This committee will evaluate the admissions folder and decide on the student's admission status. Students admitted to the program will meet with their advisor and design their schedule for the two-year program, including any work needed to complete the common and generic standards for the PPS Credential. Students who are not chosen for the cohort will be notified of the admission decision.

#### **Recommendation for the Credential**

In order to be recommended for a credential, a student must have:

1. Completed all prescribed coursework with a grade of "B" (3.0) or better;
2. Completed all requirements for the 1200-hour internship including the specific competencies in the program as mandated by the California Commission for Teacher Credentialing.

#### **Credential Requirements (46-97 units)**

##### **Common Standard Courses (46 units)**

1. EDUC 607. Introduction to Educational Research (4)
2. ECLG 619. Appraisal Procedures in Counseling (4)
3. ECLG 632. Advanced Psychological Foundations of Education (4)
4. ECLG 633. Advanced Study in Child and Adolescent Development (4)
5. ECLG 654. Legal and Ethical Issues in Counseling and Guidance (4)
6. ECLG 655. Multicultural Counseling (4)
7. ECLG 656. Counseling Theories and Techniques (4)
8. ECLG 657A. Counseling Practicum (4)
9. ECLG 658. Consulting with Parents and Staff (4)
10. ECLG 678. Theory and Practice of Group Counseling (4)
11. ECLG 679A. Counseling Fieldwork: Multicultural (4) (200 hours)
12. ECLG 696. Special Topics in Counselor Education (2)

##### **School Psychology Specialization Standards (51 units)**

1. ECLG 647. Individual Testing and Case Study Techniques I (5)
2. ECLG 648. Individual Testing and Case Study Techniques II (5)
3. ECLG 649. Ecological Assessment and Case Study Techniques (5)
4. ECLG 660. Seminar in Child/Adolescent Psychopathology and Treatment (4)
5. ECLG 686. Seminar in Counseling of Children and Parents (4)



6. ECLG 687. School Psychologist as Change Agents: Theory and Practice (4)
7. ECLG 688. Advanced Behavioral Intervention and Consultation (4)
8. ECLG 689A. Seminar/Internship in School Psychology (4)
9. ECLG 689B. Seminar/Internship in School Psychology (4)
10. ECLG 689C. Seminar/Internship in School Psychology (4)
11. ECLG 689D. Seminar/Internship in School Psychology (4)
12. ECLG 693. Special Topics in School Psychology (4)

## **PUPIL PERSONNEL SERVICES CREDENTIAL: SOCIAL WORK**

### **Requirements (106-122 units)**

#### **Admission to the Program**

1. Successful completion of the California Basic Educational Skills Test (CBEST);
2. A graduate-level grade point average of 3.0 or better.

#### **Credential Requirements (106-122 units)**

1. An M.S.W. (90 units)
2. SW 637. School Social Work (4)
3. Twelve units of field work, for a total of 450 hours of field placement in a school site:
  - SW 608D. Advanced Field Work I (4)
  - SW 608E. Advanced Field Work II (4)
  - SW 608F. Advanced Field Work III (4)
4. ECLG 619. Appraisal Procedures in Counseling (4)
5. ECLG 632. Advanced Psychological Foundations of Education (4)
6. ECLG 650. Applied Career Counseling (4)
7. ECLG 654. Legal and Ethical Issues in Counseling and Guidance (4)
8. SW 999. Graduate Comprehensive Examination (0)

**Note:** Students who have already graduated from the M.S.W. program will need to meet requirements 2 to 8 in addition to the 90 units of the M.S.W. for a total of 122 units, plus the CBEST and the comprehensive examination. Students currently enrolled in the M.S.W. will be able to incorporate requirements 2 and 3 into the 90 units of the M.S.W. for a total of 106 units plus the CBEST and the comprehensive examination.

## **READING/LANGUAGE ARTS SPECIALIST CREDENTIAL**

### **Requirements (48 units)**

#### **Admission to the Program**

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Reading/Language Arts Specialist Credential program requires the following:

1. A valid California Multiple Subject or Single Subject credential and at least one year of full-time teaching in any grades, preschool through adult, exclusive of student teaching, internship teaching, or teaching while holding an emergency credential or permit;
2. A 3.0 grade point average in all course work taken in education;
3. Application packet (obtained from the Department of Language, Literacy and Culture or the College of Education Master's Program Office) which includes information to complete:
  - A. Program application form;
  - B. Letter of interest which includes experiences working with diverse populations;

- C. Three letters of recommendation: one from the candidate's school principal, and two from other district professionals who can speak to the strengths of the applicant's personal qualities and professional qualifications;
4. Upon completing the application packet, meet with the Reading/Language Arts Coordinator to complete the program plan.

#### **Recommendation for the Credential**

In order to be recommended for a credential, the candidate must have:

1. Completed all of the prescribed course work with a grade point average of 3.0 ("B") or better;
2. Verified that all California Commission on Teacher Credentialing Standards have been met;
3. Verified at least three years of successful full-time teaching experience in any grades, preschool through adult, exclusive of student teaching, internship teaching, or teaching while holding an emergency credential or permit;
4. Obtain a letter of recommendation from the coordinator of the program.

#### **Credential Requirements (48 units)**

##### **Level I: Reading Certificate**

1. ERDG 620. Foundations of Reading and Writing (4)  
**Note:** ERDG 620 is a prerequisite for all courses in the program.
2. ERDG 622. Basic Materials and Approaches to Reading and Writing (4)
3. ERDG 625. Practicum in Reading and Writing (4)
4. ERDG 640. Early Reading: Assessment and Intervention (4)
5. ERDG 642. Images of Culture through Children's Literature (4)
6. ERDG 658. Literacy and Language Processes (4)

##### **Level II: to be taken upon completion of all courses in Level I**

7. ERDG 624. Socio-psycholinguistics and Literacy (4)
8. ERDG 630. Practicum for Leadership in Reading and Writing (4)
9. ERDG 631. Curriculum Perspectives in Reading and Writing (4)
10. ERDG 632. Assessment/Evaluation in Reading and Writing (4)
11. ERDG 643. Critical Issues in Intermediate Reading and Writing (4)
12. ERDG 679. Field Work: Reading/Language Arts Specialist (4)

## **SCHOOL NURSE CREDENTIAL**

### **Requirements (51 units)**

#### **Admission to the Program**

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the school nurse credential program requires the following:

1. A current California Registered Nurse License;
2. A current First Aid card;
3. A current Cardiopulmonary Resuscitation card, Level C;
4. A BSN or BS in a related field *and* CA PHN certification;
5. An Audiometry course, such as HSCI 374.

#### **Recommendation for the Professional Credential**

In order to be recommended for a credential, the student must have:

1. Completed all prescribed course work with a grade point average of 3.0 ("B") or better;
2. A current First Aid card and current Cardiopulmonary Resuscitation card, Level C.

**Credential Requirements****Core Courses (51 units)**

1. ESPE 530. Psychology and Education of Exceptional Individuals (4)
2. HSCI 617. Epidemiology (4)
3. NURS 502. Advanced Physical/Health Assessment: Child, Adolescent (4)
4. NURS 503. Principles of School Nursing Practice (4)
5. NURS 600. Population Health Assessment (6)
6. NURS 610. Program Planning and Evaluation (6)
7. NURS 620. Health Policy Leadership (6)
8. NURS 630. Advanced Nursing Roles (3)
9. NURS 645. Research for Advanced Practice Nursing (4)
10. NURS 655. Theoretical Foundations for Advanced Practice Nursing (4)
11. NURS 658. Nursing Education: Curriculum and Instruction (4)
12. NURS 688. Advanced Role Practicum (2)

**Special Teaching Authorization in Health (STAH)**

1. NURS 659. Assessment and Evaluation (4)
2. NURS 660. Nursing Education: Technology in Nursing Education (4)
3. NURS 681. Clinical Nurse Specialist Internship I (3)
4. NURS 682. Clinical Nurse Specialist Internship II (3)

The STAH is not required for the credential and available to Master's students. Requirements for the STAH are: completion of 14 units of educational pedagogy including a supervised student (practice) teaching experience and passing of the CBEST (California Basic Educational Skills Test). Application for the STAH requires an Exit Interview.

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**SUPERVISION AND COORDINATION OF  
DESIGNATED SUBJECTS PROGRAMS  
CREDENTIAL****Requirements (12 units)****Admission to the Program**

1. Possession of, or eligibility for a "clear" designated subjects teaching credential;
2. Three years of full time teaching experience in the subject title on the teaching credential;

All applicants for this credential should contact a designated subjects credential advisor and enroll in EVOC 508 as soon as possible.

**Credential Requirements (12 units)**

1. EVOC 508. Organization and Structure of Designated Subjects Programs (4)
2. EVOC 509. Personnel Management in Designated Subjects Programs (4)
3. EVOC 510. Field Work in Coordination and Supervision of Designated Subjects Programs (4)
4. Successful completion of the California Basic Educational Skills Test (CBEST).

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**CERTIFICATE PROGRAMS**

Certificates may be earned by regularly matriculated or Extended Learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be

taken by undergraduate students. See Page 58 for additional certificate information.

**Certificate in Crosscultural, Language and Academic Development (CLAD)****Admission to the Program**

1. Post-baccalaureate standing;
2. Completion of a single subject or multiple subject teaching credential or the equivalent.

**Certificate Requirements (18 units)**

1. Four units chosen from:  
EELB 312. Family, Culture and Schooling (2)  
EESL 536. Crosscultural Teaching (4)  
ESEC 321. Culture and Schooling (4)
2. Four units chosen from:  
EELB 313. Pedagogical Foundations for English Language Learners (4)  
ESEC 333. Curriculum and Instruction for a Diverse Society (4)
3. ESEC 511. Theory and Practice for English Language Development (ELD) (4)
4. Two units chosen from:  
EELB 605. Curriculum for Specially Designed Academic Instruction in English (SDAIE) (2)  
ESEC 605. Curriculum for Specially Designed Academic Instruction in English (SDAIE) (2)
5. Four units chosen from:  
EELB 680. Practicum in Teaching English as a Second Language (4)  
ESEC 680. Practicum in Teaching English as a Second Language (4)

**Certificate in Early Adolescent Education****Admission to the Program**

1. Post-baccalaureate standing.

**Certificate Requirements (16 units)**

1. EDCI 628. Educational Assessment in K-12 Schools (4)
2. EDCI 655. Early Adolescent Educational Psychology (4)
3. EDCI 656. Curriculum for Early Adolescents (4)
4. EDCI 657. Instructional Strategies for Early Adolescent Education (4)

**Certificate in Early Childhood Special Education Certificate**

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Early Childhood Special Education Certificate requires the following:

1. Official admission to the university;
2. A valid special education instructional specialist credential;
3. Submit documentation of a minimum of 45 hours in an Early Childhood Special Education Program setting;
4. A cumulative grade point average of 2.6 in the last 90 quarter units and a 3.0 ("B") in all course work taken in education;
5. ESPE 530 and PSYC 305 or their equivalent;
6. Minimum of 20 credit hours in special education;
7. Attend mandatory Special Education group advising session;
8. Meet with assigned faculty advisor to complete Advising Confirmation form.

**Certificate Requirements (30 units)**

1. HD 270. Early Childhood Development (5)
2. HD 280. Early Childhood Development (5)
3. ESPE 650. Development and Assessment of Young Children with Disabilities (4)
4. ESPE 651. Curricular Strategies for Students with Moderate/Severe Disabilities (4)

5. ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)
6. ESPE 665. Curriculum and Methods in Special Education: Early Childhood Special Education (4)
7. ESPE 679F. Special Education Fieldwork: Early Childhood Special Education I (4)

### Certificate in Education of the Gifted and Talented

#### Certificate Requirements (20 units)

1. ECLG 536. Social-Emotional Development of the Gifted and Talented (4)
2. EDCI 540. Differentiated Curriculum and Instruction (4)
3. EDCI 543. Creativity, Thinking and Problem Solving (4)
4. ESPE 538. Introduction to Teaching the Gifted and Talented (4)
5. ESPE 539. Programs for Teaching the Gifted and Talented (4)

### Certificate in Educational Professional Services

#### Admission to the Program

1. Post-baccalaureate standing;
2. Valid teaching credential;
3. Two years of teaching experience.

#### Certificate Requirements (24 units)

1. EDCI 628. Educational Assessment in K-12 Schools (4)
2. EDCI 638. Advanced Educational Psychology (4)
3. EDCI 650A. Professional Teacher Development Seminar A (4)
4. EDCI 650B. Professional Teacher Development Seminar B (4)
5. EDCI 653. Supervision and Mentoring of Classroom Teachers (4)
6. Four units chosen from:
  - EDCI 620. School Curriculum (4)
  - EDCI 652. Service Learning in Public Schools (4)
  - EELB 697. Implementing Educational Change (4)
  - ESEC 697. Implementing Educational Change (4)

### Certificate in Educational Technology

#### Certificate Requirements (28 units)

1. ETEC 500. Foundations in Instructional Technology (4)
2. ETEC 543. Technology and Learning I (4)
3. ETEC 544. Design and Development of Instructional Materials I (4)
4. ETEC 546. Computer Based Technology in Education II (4)
5. ETEC 676. Advanced Topics in Instructional Technology (4)
6. Eight units chosen from:
  - COMM 242. Writing for Print Media (4)
  - CSCI 125. Programming in Visual Basic (4)
  - ETEC 644. Design and Development of Instructional Materials II (4)
  - ETEC 676. Advanced Topics in Instructional Technology (4)
  - MUS 519. Audio Production (2)

### Certificate in Environmental Education

#### Admission to the Program

1. Post-baccalaureate standing and regularly matriculated;
2. Valid teaching credential or teaching experience or related experience.

#### Certificate Requirements (18 units)

1. EENV 635. Environmental Education in the Curriculum (4)
2. EENV 636. Teaching Environmental Issues (2)
3. EENV 642. Developing the Curriculum Through Outdoor Education (4)

4. EENV 643. Community Resources for Environmental Education (4)
5. Four units chosen from:
  - EENV 620. Using Children's Literature to Teach Environmentally (4)
  - EENV 644. Seminar in Environmental Education (4)
  - EENV 650. Selected Topics in Environmental Education (4)
  - EENV 651. Historical and Contemporary Readings in Environmental Education (4)
  - EENV 652. Nature Study in Environmental Education (4)
  - EENV 654. Fundraising Fundamentals in Environmental Education (4)
  - EENV 656. Water Education in Environmental Education (4)
  - EENV 664. Research in Environmental Education (4)

### Certificate in Reading/Language Arts

#### Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the reading certificate requires the following:

1. A valid California Multiple Subject or Single Subject credential and at least one year of full-time teaching in any grades, pre-school through adult, exclusive of student teaching, internship teaching, or teaching while holding an emergency credential or permit;
2. A 3.0 grade point average in all course work taken in education;
3. Application packet (obtained from the Department of Language, Literacy and Culture or the College of Education Master's Program Office) which includes information to complete:
  - A. Program application;
  - B. Letter of interest which includes experiences working with diverse populations;
  - C. Three letters of recommendation: one from the candidate's school principal, and two from other district professionals who can speak to the strengths of the applicant's personal qualities and professional qualifications;
4. Upon completing the application packet, meet with the Reading/Language Arts Coordinator to complete the program plan.

#### Recommendation for the Certificate

In order to be recommended for the certificate, the candidate must have:

1. Completed all of the prescribed course work with a grade point average of 3.0 ("B") or better;
2. Verified that all California Commission on Teacher Credentialing Standards have been met;
3. Verified at least three years of successful full-time teaching experience in any grades, preschool through adult, exclusive of student teaching, internship teaching, or teaching while holding an emergency credential or permit;
4. Obtain a letter of recommendation from the coordinator of the program.

#### Certificate Requirements (20 units)

1. ERDG 620. Foundations of Reading and Writing (4)  
**Note:** This course is the prerequisite for all courses in the program.
2. ERDG 622. Basic Materials and Approaches to Reading and Writing (4)
3. ERDG 625. Practicum in Reading and Writing (4)
4. ERDG 640. Early Reading: Assessment and Intervention (4)
5. ERDG 642. Images of Culture through Children's Literature (4)

**Certificate in Rehabilitation Counseling****Certificate Requirements (28 units)**

1. ECLG 531. Introduction to Counseling (4)
2. EREH 615. Introduction to Rehabilitation Counseling (4)
3. EREH 616A. Multiple Aspects of Disability: Medical (4)
4. EREH 616B. Multiple Aspects of Disability: Vocational (4)
5. EREH 617. Vocational Assessment and Development (4)
6. EREH 618. Applied Job Placement (4)
7. EREH 649. Organizational Development of Rehabilitation Services (4)

**Note:** Rehabilitation Counseling 615 must be completed with a grade of "B" (3.0) or better to continue work in the certificate program.

**Certificate in School Business Management****Certificate Requirements (26 units)**

1. EADM 511. Contemporary School Business Management (4)
2. EADM 512. School Finance and Budgeting (4)
3. EADM 513. School Accounts and Related Functions (4)
4. EADM 525. Classified Personnel Administration (4)
5. Six units chosen from:
  - EADM 514A. School Business Management and Service Functions: Purchasing, Warehousing and Inventory (2)
  - EADM 514B. School Business Management and Service Functions: Risk Management (2)
  - EADM 514C. School Business Management and Service Functions: Facilities Planning, Construction (2)
  - EADM 514D. School Business Management and Service Functions: Computer Services in Business Functions (2)
  - EADM 514E. School Business Management and Service Functions: Maintenance, Operations and Transportation (2)
  - EADM 514F. School Business Management and Service Functions: Employee Supervision (2)
6. Four units of electives chosen from:
  - EADM 519. Legal Aspects of Classified Personnel Administration (4)
  - ECLG 531. Introduction to Counseling (4)
  - ESPE 530. Psychology and Education of Exceptional Individuals (4)
  - PA 307. Public Relations in the Public Sector (4)OR  
Four additional units chosen from (if not taken previously):
  - EADM 514A. School Business Management and Service Functions: Purchasing, Warehousing and Inventory (2)
  - EADM 514B. School Business Management and Service Functions: Risk Management (2)
  - EADM 514C. School Business Management and Service Functions: Facilities Planning, Construction (2)
  - EADM 514D. School Business Management and Service Functions: Computer Services in Business Functions (2)
  - EADM 514E. School Business Management and Service Functions: Maintenance, Operations and Transportation (2)
  - EADM 514F. School Business Management and Service Functions: Employee Supervision (2)

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**SPECIALIST CERTIFICATE PROGRAM**

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**Certificate in Resource Specialist in Special Education****Admission to the Program**

Admission to the university must precede admission to the certificate program.

1. A baccalaureate degree from an accredited college;
2. A valid special education teaching credential;
3. A cumulative grade point average of 2.6 in the last 90 quarter units and a 3.0 ("B") in all course work taken in education;
4. ESPE 530 or its equivalent;
5. A minimum of 20 credit hours in special education.

**Certificate Completion Requirements**

1. Three years teaching experience to include full-time teaching in both the regular and the special education classroom.

**Certificate Requirements (16 units)**

1. ESPE 635. Effective Communication with Professionals and Families (4)
2. ESPE 646. The Resource Specialist in Special Education (4)
3. Four units chosen from:
  - ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)
  - ERDG 625. Practicum in Reading and Writing (4)
4. ESPE 679E. Special Education Field Work: Resource Specialist (4)

*Graduate level course descriptions are listed on the following pages. Refer to the page numbers given for those programs listed elsewhere in the graduate studies section.*

EDUC Education (general and core courses)  
EADM Educational Administration (listed on Page 440)  
ECLG Educational Counseling (listed on Page 388)  
EDCA Correctional and Alternative Education  
EDCI Curriculum and Instruction  
EDSC Science Education  
EELB Elementary Education  
EENV Environmental Education  
EESL English as a Second Language  
ERDG Reading Education  
EREH Rehabilitation Counseling (listed on Page 497)  
ESEC Secondary Education  
ESPE Special Education  
ETEC Instructional Technology  
EVOC Vocational Education

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**COURSE OFFERINGS IN  
EDUCATION (EDUC)**

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**Upper Division****542. Seminar in Education**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-5 units)

**595. Independent Study**

Special topics involving library and/or field research. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and college approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-4 units)



**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**600. Master's Degree Project**

Prerequisite: advancement to candidacy. (4 units)

**601. Advanced Independent Study Topics in Education**

Special topics involving application of educational procedures. Prerequisites: minimum grade point average of 3.0, consent of instructor and college approval of a written proposal of a project submitted on a standard application, and filed in advance of the term in which the course is to be taken. (1-4 units)

**603. Effective Communication in Education**

Varying theoretical approaches with an emphasis on identifying one's personal/professional school of thought. Dynamics of interpersonal communication in educational structures: participation of individuals and small groups from a pluralistic perspective; writing for research purposes and professional speaking. Prerequisite: EDUC 306 or equivalent. (4 units)

**605. Foundations of Education**

History and theory of elementary, secondary and postsecondary education within the setting of American society: underlying assumptions, organizational structure, and educational change. Multiculturalism is studied in a balanced context relevant to the educational setting. Students apply what they learn to their school of thought in education, thereby connecting theory to the daily practice in the schools. Formerly EDUC 695. Prerequisite or corequisite: EDUC 603. (4 units)

**607. Introduction to Educational Research**

Introduction to the vocabulary, design, and sources of quantitative and qualitative methodologies, and program evaluation research in education. Ethical strategies for collecting, treating, and reporting data are emphasized; research reports and identifying, developing and critiquing trends in research communities. Formerly EDUC 663. Prerequisites: EDUC 603 and 605. (4 units)

**611. Foundations of Integrative and Holistic Models of Education**

Introduction to constructive post-modernist paradigms, systems theory, theories of meaning, constructivism and holistic theory. Students explore the importance of an engaging learning environment, a facilitative learning community and open-ended processes of problem solving. Prerequisite: consent of department. (4 units)

**613. Integration and Meaning in Education**

Investigation of instructional applications of the neuro-sciences, holistic learning and constructivist principles. Emphasizing group processes, collaborative action research, integrating technology, implementing cooperative groups, and developing cultural sensitivity and awareness of social justice issues. Prerequisite: consent of department. (4 units)

**615. Exploring Arts, Creativity and Sign Systems**

Application of the research on, and processes of art and creativity to learning. Exploration of the use of multiple modalities and somatic approaches to teaching, and semiotic understandings of disciplines. Introduction of intuitive development into the teaching/learning process. Prerequisite: consent of department. (4 units)

**617. Exploring Integrative and Holistic Curriculum Theory**

Exploration of the dominant perspectives on curriculum and introduction to constructive postmodernist curriculum theory as a foundation for integrative and holistic curriculum design. Development and field testing of substantive and engaging curriculum projects. Prerequisite: consent of department. (4 units)

**619. Seminar in Holistic Education**

Exploration of a variety of selected topics in holistic education through readings, class presentations, discussions, and reflective writing. Selection by student of an approved topic for in-depth exploration. Planning of a mini-conference in holistic education that includes presentations by each student, as well as outside speakers. Prerequisite: consent of department. (4 units)

**620. Spiritual Perspectives in Public Education**

Principles and techniques of integrating a nonsectarian spiritual perspective in a public school setting. Theoretical framework consistent with a variety of spiritual traditions, the implications of the new sciences, and current educational psychology (e.g., constructivism). Focus on nonsectarian methods that nourish the inner life of the educator and the student. (4 units)

**621. Assessment and Research: Holistic Perspectives**

Focus on the skills, understandings and methodologies of assessment and research design from a holistic perspective. Includes both quantitative and qualitative models, evaluation design and scholarly writing. Prerequisite: consent of department. (4 units)

**694. Master's Project in Science Education**

Prerequisites: advancement to candidacy and consent of the graduate coordinator. (4 units)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

**Doctoral-level courses****700. Scientific Inquiry**

Overview of basic tools and methods required for scientific inquiry. Guided practice in the critical review of current educational literature, hypothesis development, and design of basic quantitative and qualitative methods. Content coverage to include research designs, sampling techniques, data collection strategies, basic psychometrics, descriptive and inferential statistics, and ethical treatment of research participants. Prerequisite: admission to the Ed.D. in Educational Leadership. (4 units)

**705. Organization and Administration of School Systems/Community Colleges**

Examines educational institutions, administrative roles, organizational and administrative theory. Developing and sustaining positive relationships with boards and governance issues are emphasized. Prerequisites: admission to the Ed.D. in Educational Leadership. (4 units)

**707. Quantitative Research Methods**

Guided practice in designing and conducting quantitative research in education. Analyzes quantitative methods, data collection and results. Prerequisites: EDUC 700 and 705. (4 units)

**709. Diversity and Equity in Educational Administration: School Districts and Community Colleges**

School administrative and management issues related to the increasing diversity and equity issues in educational institutions. Reviews theories about diversity as well as equity legislation, harassment policies, and institutional participation. Considers cultural background, communication patterns, social networks, leadership and administrative styles. Prerequisites: EDUC 700 and 705. (4 units)

**712. Qualitative Research Methods**

Guided practice in designing and conducting qualitative research in education. Analyzes qualitative methods, data collection, and results. Prerequisites: EDUC 707 and 709. (4 units)

**714. Educational Systems as Cultural and Social Systems**

School relationships and systems: administration, bureaucracies, faculty and student relations, globalization, and competition in the global market. Examines the educational institution and the classroom as social psychological systems. Prerequisites: EDUC 707 and 709. (4 units)

**716. Leading and Motivating Adults**

Examines theories of adult development, learning and motivation. Covers dimensions of individual differences, varieties of group differences and application of theory to the learning environment. Four hours lecture and two hours practicum. Prerequisites: EDUC 712 and 714. (5 units)

**718. Strategic Planning, Accountability and Change**

Principles of change, innovation, shared vision, mission and goals in accordance with the principles of strategic planning and accountability, to include the California Educational and Facilities Master Plan. Four hours lecture and two hours practicum. Prerequisites: EDUC 712 and 714. (5 units)

**720. Advanced Quantitative Research Methods**

Advanced designs and statistics commonly applied in educational research. Analysis and interpretation of data from designs using covariates (ANCOVA and hierarchical regression), mediation and moderation effects (in ANOVA and multiple regression), hierarchical linear modeling (nested data), factor analysis, structural equation modeling, utility analysis, and meta-analysis. Results writing and discussion sections based on selected data analyses. Prerequisites: EDUC 707, 716 and 718. (4 units)

**722. Advanced Qualitative Research Methods**

Advanced designs and data analysis commonly applied in qualitative study in education on a topic of their choice and to better understand the assumptions of theory, method, and analysis guiding

their research choices. Readings will focus on issues involved in the interconnected processes of framing a study, writing a proposal, considering ethical and political issues, collecting data, analyzing and interpreting data, and writing and presenting research for varied purposes. Prerequisites: EDUC 712, 716 and 718. (4 units)

**726. Ethical Leadership and Decision Making in Education**

Leadership ethics and the utilization of principles of personal balance in daily life and work. Covers decision making theories and how decisions are made at various levels in P-12 and community college to effectuate positive and sustaining change. Prerequisites: EDUC 716 and 718. (4 units)

**790. Research Seminar**

Mentors and guides candidates through the dissertation. Members meet and discuss their progress with the cohort and faculty. Faculty supervise dissertation planning, research, and preparation. Must be repeated for a total of three units. Prerequisites: admission to the Ed.D. in Educational Leadership and advancement to candidacy for the Doctoral Degree. (1 unit)

**799. Dissertation**

Directed independent study. Candidates prepare their dissertations with faculty support. Must be repeated for a total of 16 units. Prerequisites: admission to the Ed.D. in Educational Leadership and advancement to candidacy for the Doctoral Degree. (2-6 units)

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**COURSE OFFERINGS IN  
CORRECTIONAL AND ALTERNATIVE  
EDUCATION (EDCA)**

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**Upper Division****514. Foundations of Institutional Education:  
History and Literature**

Historic and current correctional and alternative education delivery structures, the prison reform/correctional education (CE) movement and the classic literature. Emphasis on major CE development in North America, CE paradigms, anomalies, and trends. (Also offered as EDCA 614. Students may not receive credit for both.) Students in EDCA 614 must complete additional requirements. Formerly EDUC 574. (4 units)

**516. Teaching the Institutional Student**

Identified student needs, underlying assumptions, curricular components, and instructional methodologies appropriate to institutional education. Relevant traditional and innovative theory, practice and trends in instruction will be considered. (Also offered as EDCA 616. Students may not receive credit for both.) Students in EDCA 616 must complete additional requirements. Formerly EDUC 580. (4 units)

**518. Social and Cultural Dynamics of Institutional Education**

Interpersonal communication and professional identity issues as they relate to the meanings of everyday events in schools and schooling within confinement institutions. Emphases include post-modernism and approaches of communication and critical theories. Addresses issues such as culture shock, typical experiences of institutional educators, the struggle for recognition and respect, burn-out and coping strategies to help avoid it, and retributive and restorative justice. (Also offered as EDCA 618. Students may not receive credit for both.) Students in EDCA 618 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

**520. Educational Change in Institutional Settings**

Reforming prisoners and prisons through democratic methods. Emphasizes student learning and personal/professional growth. (Also offered as EDCA 620. Students may not receive credit for both.) Students in EDCA 620 must complete additional requirements. Formerly EDUC 575. Prerequisite or corequisite: EDCA 514. (4 units)

**528. Special Education in Correctional Institutions**

Meeting the statutory/regulatory requirements of Federal- and State-funded education for disabled learners in confinement institutions. Special emphases include the identification of students with disabilities, definitions of a free and appropriate public education, staffing and records maintenance, confidentiality and due process, parental involvement, and the impact of current legislation. Historic and legal case histories are addressed, as well as current trends. (Also offered as EDCA 628. Students may not receive credit for both.) Students in EDCA 628 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

**530. Alternative and Correctional Education**

Similarities of alternative and correctional education students, and dissimilarities of organizational configuration and location in government. Introduction to the history and literature of alternative education, its role in selected urban and rural communities, and current trends. Includes the effects of educational reform, innovations consistent with the aspiration for multicultural education, and the teaching implications for the shift from a behavioral to a cognitive psychological base. (Also offered as EDCA 630. Students may not receive credit for both.) Students in EDCA 630 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

**532. Career and Vocational Education in Correctional Institutions**

History and specialized literature of vocational education in correctional institutions, linkages between academic/vocational instruction, and strategies for short- and long-term programs. Includes occupational projections, statutory and regulatory prohibitions for ex-felons in the workforce, relationships with the State departments of Education and Labor, and job preparation for traditional and emergent employment opportunities. (Also offered as EDCA 632. Students may not receive credit for both.) Students in EDCA 632 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

**534. Correctional Education Leadership**

Principles of educational administration, educational supervision, and theories and processes of educational management, within correctional education. (Also offered as EDCA 634. Students may not receive credit for both.) Students in EDCA 634 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

**536. Pedagogy and Andragogy in Correctional Institutions**

Historic and current differences between the education of children (pedagogy) and of adults (andragogy). Emphases include developmental and transpersonal psychology; rationales and procedures associated with the education of children and adults; the issues of learner motivation, life tasks, and curricular concerns; and the similarities and differences of local school education, correctional and alternative education, and adult education. (Also offered as EDCA 636. Students may not receive credit for both.) Students in EDCA 636 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

**538. Organization of Correctional and Alternative Education Service Delivery**

Three current modes of institutional education delivery (decentralized, bureau, correctional school district), the origins of institutional education in moral and religious instruction, and alternative and continuation education as offered by court schools, municipalities, and counties. Includes patterns of organization that were designed to support schooling in settings characterized by resource inadequacy. (Also offered as EDCA 638. Students may not receive credit for both.) Students in EDCA 638 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

**540. Literacy in Adult Confinement Institutions**

Concepts of readiness to learn and developmental tasks, family literacy for incarcerates, prevalence of disabling conditions that impact learning, and the establishment of "third space" alphabetic and cultural literacy strategies. Critique of traditional and current curricular approaches and recent research findings. (Also offered as EDCA 640. Students may not receive credit for both.) Students in EDCA 640 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

**542. Library Services for Alternative and Correctional Students**

Historic alliances between the American Correctional Association and the American Library Association; Carnegie Fund and the Adult Education Association; and state, county, and agency library services. Emphases include traditional reading interests of juvenile and adult students in alternative and institutional school programs, readability assessments, various funding sources for library services, and the shift from print-based to digital/online delivery capabilities. (Also offered as EDCA 642. Students may not receive credit for both.) Students in EDCA 642 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

**544. Pre- and Post-Release Transitions for Correctional Students**

Rationale, program opportunities, and coping skills for the offender employment continuum. Directed to the different tasks confronting students "inside" and "outside" the institution with regard to family life, housing, drug abatement, transportation, community resources, basic domestic requirements and strategies to meet them, and finding and keeping regular employment. (Also offered as EDCA 644. Students may not receive credit for both.) Students in EDCA 644 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

**546. Comparative Correctional Education**

Provision of institutional education in rich and poor nations. Comparison of institutional learning opportunities for students with disabilities in various nations, cultural education, the "normalization" of schooling, and professional networking for institutional educators in selected nations. Various United Nations charges for the development of institutional education, and the European Prison Rules. (Also offered as EDCA 646. Students may not receive credit for both.) Students in EDCA 646 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

**584. Special Topics in Correctional and Alternative Education**

Lives and works of the great institutional educators and prison reformers, including the personalities, life conditions, and general programs of these contributors, their writings, social and professional networks, and alignment with successive correctional education paradigms. (Also offered as EDCA 684. Students may not receive credit for both.) Students in EDCA 684 must complete additional requirements. May be repeated for credit. Prerequisite or corequisite: EDCA 514. (4 units)



**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

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9**614. Foundations of Institutional Education:  
History and Literature**

Historic and current correctional and alternative education delivery structures, the prison reform/correctional education (CE) movement and the classic literature. Emphasis on major CE development in North America, CE paradigms, anomalies, and trends. (Also offered as EDCA 514. Students may not receive credit for both.) Students in EDCA 614 must complete additional requirements. Formerly EDUC 674. (4 units)

**616. Teaching the Institutional Student**

Identified student needs, underlying assumptions, curricular components, and instructional methodologies appropriate to institutional education. Relevant traditional and innovative theory, practice and trends in instruction will be considered. (Also offered as EDCA 516. Students may not receive credit for both.) Students in EDCA 616 must complete additional requirements. Formerly EDUC 680. Prerequisite or corequisite: EDCA 614. (4 units)

**618. Social and Cultural Dynamics of Institutional Education**

Interpersonal communication and professional identity issues as they relate to the meanings of everyday events in schools and schooling within confinement institutions. Emphases include post-modernism and approaches of communication and critical theories. Addresses issues such as culture shock, typical experiences of institutional educators, the struggle for recognition and respect, burn-out and coping strategies to help avoid it, and retributive and restorative justice. (Also offered as EDCA 518. Students may not receive credit for both.) Students in EDCA 618 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

**620. Educational Change in Institutional Settings**

Reforming prisoners and prisons through democratic methods. Emphasizes student learning and personal/professional growth. (Also offered as EDCA 520. Students may not receive credit for both.) Students in EDCA 620 must complete additional requirements. Formerly EDUC 675. Prerequisite or corequisite: EDCA 614. (4 units)

**628. Special Education in Correctional Institutions**

Meeting the statutory/regulatory requirements of Federal- and State-funded education for disabled learners in confinement institutions. Special emphases include the identification of students with disabilities, definitions of a free and appropriate public education, staffing and records maintenance, confidentiality and due process, parental involvement, and the impact of current legislation. Historic and legal case histories are addressed, as well as current trends. (Also offered as EDCA 528. Students may not receive credit for both.) Students in EDCA 628 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

**630. Alternative and Correctional Education**

Similarities of alternative and correctional education students, and dissimilarities of organizational configuration and location in government. Introduction to the history and literature of alternative education, its role in selected urban and rural communities, and current trends. Includes the effects of educational reform, innovations consistent with the aspiration for multicultural education, and the teaching implications for the shift from a behavioral to a cognitive psychological base. (Also offered as EDCA 530. Students may not receive credit for both.) Students in EDCA 630 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

**632. Career and Vocational Education in  
Correctional Institutions**

History and specialized literature of vocational education in correctional institutions, linkages between academic/vocational instruction, and strategies for short- and long-term programs. Includes occupational projections, statutory and regulatory prohibitions for ex-felons in the workforce, relationships with the State departments of Education and Labor, and job preparation for traditional and emergent employment opportunities. (Also offered as EDCA 532. Students may not receive credit for both.) Students in EDCA 632 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

**634. Correctional Education Leadership**

Principles of educational administration, educational supervision, and theories and processes of educational management, within correctional education. (Also offered as EDCA 534. Students may not receive credit for both.) Students in EDCA 634 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

**636. Pedagogy and Andragogy in Correctional Institutions**

Historic and current differences between the education of children (pedagogy) and of adults (andragogy). Emphases include developmental and transpersonal psychology; rationales and procedures associated with the education of children and adults; the issues of learner motivation, life tasks, and curricular concerns; and the similarities and differences of local school education, correctional and alternative education, and adult education. (Also offered as EDCA 536. Students may not receive credit for both.) Students in EDCA 636 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

**638. Organization of Correctional and Alternative Education Service Delivery**

Three current modes of institutional education delivery (decentralized, bureau, correctional school district), the origins of institutional education in moral and religious instruction, and alternative and continuation education as offered by court schools, municipalities, and counties. Includes patterns of organization that were designed to support schooling in settings characterized by resource inadequacy. (Also offered as EDCA 538. Students may not receive credit for both.) Students in EDCA 638 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

**640. Literacy in Adult Confinement Institutions**

Concepts of readiness to learn and developmental tasks, family literacy for incarcerates, prevalence of disabling conditions that impact learning, and the establishment of "third space" alphabetic and cultural literacy strategies. Critique of traditional and current curricular approaches and recent research findings. (Also offered as EDCA 540. Students may not receive credit for both.) Students in EDCA 640 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

**642. Library Services for Alternative and Correctional Students**

Historic alliances between the American Correctional Association and the American Library Association; Carnegie Fund and the Adult Education Association; and state, county, and agency library services. Emphases include traditional reading interests of juvenile and adult students in alternative and institutional school programs, readability assessments, various funding sources for library services, and the shift from print-based to digital/online delivery capabilities.



(Also offered as EDCA 542. Students may not receive credit for both.) Students in EDCA 642 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

#### **644. Pre- and Post-Release Transitions for Correctional Students**

Rationale, program opportunities, and coping skills for the offender employment continuum. Directed to the different tasks confronting students "inside" and "outside" the institution with regard to family life, housing, drug abatement, transportation, community resources, basic domestic requirements and strategies to meet them, and finding and keeping regular employment. (Also offered as EDCA 544. Students may not receive credit for both.) Students in EDCA 644 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

#### **646. Comparative Correctional Education**

Provision of institutional education in rich and poor nations. Comparison of institutional learning opportunities for students with disabilities in various nations, cultural education, the "normalization" of schooling, and professional networking for institutional educators in selected nations. Various United Nations charges for the development of institutional education, and the European Prison Rules. (Also offered as EDCA 546. Students may not receive credit for both.) Students in EDCA 646 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

#### **684. Special Topics in Correctional and Alternative Education**

Lives and works of the great institutional educators and prison reformers, including the personalities, life conditions, and general programs of these contributors, their writings, social and professional networks, and alignment with successive correctional education paradigms. (Also offered as EDCA 584. Students may not receive credit for both.) Students in EDCA 684 must complete additional requirements. May be repeated for credit. Prerequisite or corequisite: EDCA 614. (4 units)

#### **999. Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of Correctional and Alternative Education, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the Master's program and good academic standing. (0 units)

### **COURSE OFFERINGS IN CURRICULUM AND INSTRUCTION (EDCI)**

#### **Upper Division**

#### **540. Differentiated Curriculum and Instruction**

Methods of designing curriculum and instruction to accommodate differences and diversity in learners, with an emphasis on utilizing differentiated instructional methodologies to meet the needs of gifted learners in the regular classroom. (4 units)

#### **543. Creativity, Thinking and Problem Solving**

Emphasis on characteristics, needs and appropriate education of creatively gifted individuals. Strategies for regular classroom applications of creative and critical thinking skills and infusion of problem solving across the curriculum. (4 units)

### **Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

#### **620. School Curriculum**

History, organization and operation of American K-12 schools; curriculum trends; recent practices in K-12 education. Formerly EELB 622, 640, 662; ESEC 662 and 699. (4 units)

#### **624. Advanced Teaching Methodology**

Development of various advanced teaching methods as well as self and peer coaching for the improvement of teaching. Formerly EELB 580, 624; ESEC 516 and 624. (4 units)

#### **628. Educational Assessment in K-12 Schools**

Development and utilization of educational assessment techniques to obtain reliable and useful information to document student achievement in K-12 schools. Includes the study of traditional assessment measures as well as authentic assessment and outcome-based methods. Formerly EELB 644 and ESEC 644. (4 units)

#### **638. Advanced Educational Psychology**

Advanced seminar exploring recent theory and research on cognition, personality, and psychosocial development with an emphasis on examining their interactions with the learning process. Formerly EELB 620 and ESEC 620. Prerequisite: an upper-division child development course. (4 units)

#### **650. Professional Teacher Development**

- A. Seminar A: Designed to support teachers pursuing National Board Certification. Teachers will review research of effective teaching strategies and examine their own practice as a foundation for effective decision making. Emphasis on student learning and development, student motivation, and the influence of context and culture on student learning and behavior. In addition, teachers will examine subject matter knowledge including how disciplinary knowledge is created, organized, linked to other disciplines, and applied to real world settings. Formerly EELB 650A and ESEC 650A. (4 units)
- B. Seminar B: Assists teachers pursuing National Board Certification. Examines instructional settings and techniques designed to capture and sustain student interest and ensure academic success. In addition, teachers will examine the use of multiple methods for measuring student growth and understanding. Formerly EELB 650B and ESEC 650B. Prerequisite or corequisite: EDCI 650A. (4 units)

#### **652. Service Learning in Public Schools**

Study of service learning, a pedagogy that integrates academic curriculum with community service. Examines the principles and best practices of including service learning in classrooms. Includes a field component. Formerly EELB 652 and ESEC 652. (4 units)

#### **653. Supervision and Mentoring of Classroom Teachers**

Emphasizes the skills needed to support and mentor teachers as outlined in the California Standards for the Teaching Profession. Formerly EELB 653 and ESEC 653. (4 units)

#### **655. Early Adolescent Educational Psychology**

Advanced seminar exploring recent theory and research on cognition, personality, and psycho-social development in early adolescents (grades 5-9) with emphasis on examining their interactions with the learning process. (4 units)

**656. Curriculum for Early Adolescents**

Curriculum development and alignment to the state standards for grades 5-9, including assessment and accountability methods and measures. Formerly ESEC 517 and 617. Prerequisites: EDCI 620 and 628. (4 units)

**657. Instructional Strategies for Early Adolescent Education**

Effective instructional methods and evaluation procedures that address the needs of early adolescents in grades 5-9. Formerly ESEC 521 and 621. Prerequisite: EDCI 624. (4 units)

**663. Comprehensive Evaluation in Curriculum and Instruction**

Review and preparation for the written comprehensive examination as well as the administration of the comprehensive examination. Formerly EELB 633 and ESEC 633. Graded credit/no credit. Prerequisites: advancement to candidacy and permission of program coordinator. (2 units)

**664. Thesis/Project Design in Curriculum and Instruction**

Steps and processes involved in the design and development of research proposals with emphasis on master's thesis/project. Formerly EELB 664, 698 and ESEC 664. Prerequisites: completion of all core and required program courses in the M.A. in Education, Curriculum and Instruction Option. (2 units)

**999. Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

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**COURSE OFFERINGS IN  
ELEMENTARY/BILINGUAL EDUCATION (EELB)**

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**Upper Division****512. Spanish Children's Literature for the Bilingual Classroom**

Examines children's literature and how it has the potential to be culturally authentic, interesting and effective in literacy instruction. (Also offered as EELB 611. Students may not receive credit for both.) (4 units)

**519. Assessment Seminar I**

Seminar focusing on knowledge, skills and dispositions required of first-year teachers. Emphasis on content specific and developmentally appropriate pedagogy, characteristics of English learners and learners with special needs, and demonstration of Teacher Performance Expectations 1, 3, 4, 6 and 7. Must be the last course taken in Phase I. Graded credit/no credit. Prerequisite: admission to the Multiple Subject Credential program. Prerequisite or corequisite: all courses in Phase I. (2 units)

**529. Assessment Seminar II**

Seminar focusing on knowledge, skills and dispositions required of first year teachers. Emphasis on connecting instructional planning to student characteristics for academic learning; designing instruction in physical education; and demonstration of Teacher Performance Expectations 1, 4, 6, 7, 8, 9, and 13. Graded credit/no credit. Corequisite: EELB 540A for student teachers or EELB 560B for intern teachers. Prerequisites or corequisites: EELB 422, 423, 425 for student

teachers or EELB 532 for intern teachers. Prerequisites: admission to the Multiple Subject Credential program and all Phase I courses for student teachers or all courses in Phase I and II for intern teachers. (2 units)

**532. Science/Health Curriculum and Pedagogy**

Introductory course in curriculum and pedagogy in science and health. Emphasis on implementing state adopted science and health curriculum standards in an elementary classroom. Includes designing instruction to meet academic needs of all learners including English language learners and learners with special needs. Formerly EELB 443. Student teachers may take concurrently with EELB 533 or 534, EELB 539 and EELB 540B. Intern teachers may take concurrently with EELB 529 and 560B. If not taken concurrently with EELB 540B or 560B, then six hours of fieldwork will be required. Prerequisites: admission to the Multiple Subject Credential Program and completion of all Phase I and II courses. (4 units)

**533. Social Studies and the Arts Curriculum and Pedagogy**

Introductory course in curriculum and pedagogy in history/social studies and visual/performing arts. Emphasis on implementing state adopted curriculum standards and skills in an elementary classroom based on an in-depth understanding of concepts, skills, and strategies in history/social studies and the visual/performing arts. Includes designing a teaching unit to meet academic needs of all learners including English language learners and learners with special needs. Formerly EELB 447. Corequisite: EELB 540B or 560C. Student teachers may take concurrently with EELB 532, 539 and EELB 540B. Intern teachers may take concurrently with EELB 539 and 560C. If not taken concurrently with EELB 540B or 560C, then six hours of fieldwork will be required. Prerequisites: admission to the Multiple Subject Credential Program and completion of all Phase I, II and III courses for intern teachers. (4 units)

**534. Social Studies and the Arts (Primary Language) Curriculum and Pedagogy**

Introductory course in curriculum and pedagogy in history/social studies and the visual/performing arts. Emphasis on implementing state adopted curriculum standards and skills in an elementary school based on an in-depth understanding of concepts, skills, and strategies in history/social studies and the visual/performing arts. Includes designing a teaching unit to meet academic and language needs of all learners including Spanish-speaking learners and learners with special needs. Part of the course will be taught in Spanish. Formerly EELB 448. Student teachers may take concurrently with EELB 532, 539 and EELB 540B. Intern teachers may take concurrently with EELB 539 and 560C. If not taken concurrently with EELB 540B or 560C, then six hours of fieldwork will be required. Prerequisites: admission to the Multiple Subject Credential program and completion of all Phase I and II courses for student teachers or completion of all Phase I, II, and III courses for intern teachers. Corequisite: EELB 540B or 560C. (4 units)

**539. Assessment Seminar III**

Seminar focusing on knowledge, skills and dispositions required of first year teachers. Emphasis on assessment of learning goals; lesson design, implementation, and reflection after instruction; professional, legal and ethical obligations; and demonstration of Teacher Performance Expectations 1 through 13. Graded credit/no credit. Corequisite: EELB 540B for student teachers or EELB 560C for intern teachers. Prerequisites or corequisites: EELB 532 and 533 or 534 for student teachers or EELB 533 or 534 for intern teachers. Prerequisites: admission to the Multiple Subject Credential program and Phase I and II for student teachers or Phase I, II and III for intern teachers. (2 units)

**540. Supervised Student Teaching in Multiple Subject**

Teaching practicum in public schools in a multiple subject setting as defined by CCTC. Two quarters of student teaching are required. Graded credit/no credit. Formerly EELB 450.

- A. I. Must be taken concurrently with EELB 529. Should be taken concurrently with EELB 422, 423, and 425. Prerequisite: admission to supervision as a student teacher. (6 units)
- B. II. Must be taken concurrently with EELB 539. Should be taken concurrently with EELB 532 and 533 or 534. Prerequisites: EELB 422, 423, 425, 529 and 540A. (6 units)
- C. III. Prerequisite: consent of program director. (6 units)

**542. Seminar in Elementary/Bilingual Education**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-4 units)

**545. Teaching Science in Elementary School**

Intensive study of teaching science in elementary school. Exploration, analysis, interpretation and implementation of science process teaching. Intended for experienced teachers. Prerequisite: consent of instructor. (4 units)

**560. Supervised Intern Teaching in Multiple Subject**

Full-time teaching in the public schools under the intern credential in a multiple subject setting as defined by CCTC. Three quarters of supervised intern teaching are required. Formerly EELB 455. Graded credit/no credit.

- A. Prerequisites: admission to the intern program, completion of EELB 312, 313, 315 or 316, and 317 and admission to supervision. Corequisites: EELB 422, 423, and 425. (8 units)
- B. Prerequisites: EELB 312, 313, 315 or 316, 317, 422 423, 425, and 560A. Corequisites: EELB 529 and 532. (8 units)
- C. Prerequisites: EELB 533 or 534 and 539. (8 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**605. Curriculum for Specially Designed Academic Instruction in English (SDAIE)**

Study and practice of the design, implementation, and assessment of specially designed academic instruction in English (SDAIE). Includes selection and use of appropriate SDAIE strategies and materials. Formerly a topic under ESEC 602. Also offered as ESEC 605, students may not receive credit for both. Prerequisites: EELB 312, EESL 536, or ESEC 321; EELB 313 or ESEC 333; and ESEC 511. (2 units)

**606. Theory and Practice in Teaching Bilingual Students I**

Bilingual/crosscultural teaching strategies and curriculum development; methods of integrating English and Spanish in the instructional program; evaluation of language skills, emphasis on social sciences and language arts. Prerequisite: consent of instructor. (4 units)

**608. Research in Bilingual/Cross-Cultural Education**

Survey of current measurements and research in bilingual/cross-cultural education and their applications in the classroom. (4 units)

**611. Spanish Children's Literature for the Bilingual Classroom**

Examines children's literature and how it has the potential to be culturally authentic, interesting and effective in literacy instruction. (Also offered as EELB 512. Students may not receive credit for both.) Graduate students in this course must complete additional assignments. (4 units)

**612. Social and Cultural Contexts for School Learning**

Examination of the relationship between the sociology of knowledge, social context, cultural norms and school practices with particular attention to language minority student populations. (4 units)

**616. Advanced Reading/Language Arts (Primary Language) Curriculum and Pedagogy**

Research-based materials, methods, and strategies for teaching reading/language arts, including explicit systematic, meaningful instruction in basic reading skills and comprehension strategies to meet the needs of English learners, proficient English learners, and learners with special needs, including learners with varied reading levels and language backgrounds. Emphasis on emergent reading and writing behaviors, balanced literacy components, and literature. Part of the course will be taught in Spanish. Requires a minimum six-hour field component including participation with beginning readers in an approved Multiple Subject (BCLAD) setting. In addition, students will be required to conduct a case study research project tracking a beginning reader and writer's literacy/biliteracy development across time. Fulfills credential requirement for EELB 316. Formerly EELB 646. (4 units)

**618. Social and Cultural Contexts for Bilingual Teaching and Learning**

The relationship between language and culture will be explored with an emphasis on some of the existent variations within the English language among different social and ethnic groups and how these differences have emerged. Examines the development of mind as social construction. For educators this requires an understanding of the connectedness of social, institutional and interactional factors which foster the cognitive development of bilingual students. (4 units)

**619. Cognition, Language Acquisition and Biliteracy**

An analysis of the language acquisition process as it emerges from the early grammars of the child and develops into the complex grammatical structures and patterns of the mature individual. Examines sociopsycholinguistic, sociocultural, psychogenetic and sociopolitical traditions and how they relate to the literacy development of students in bilingual and mainstream programs. (4 units)

**625. Curriculum and Materials for Bilingual and ESL Classrooms**

Provides participants with advanced knowledge of curricular and instructional approaches used in effective bilingual and English as a Second Language (ESL) programs. (4 units)

**626. Literacy and Bilingual Development**

Examines sociopsycholinguistic, sociocultural, psychogenetic and sociopolitical traditions and how they relate to the literacy development of students in bilingual and mainstream programs. (4 units)

**627. Innovations in Bilingual Education**

Examines the theoretical bases of innovations in curriculum, instruction and school reform to meet the needs of students in bilingual education. (4 units)



**628. Bilingualism and the Social Construction of Mind**

Examines the development of mind as social construction. For educators this requires an understanding of the connectedness of social, institutional and interactional factors which foster the cognitive development of bilingual students. (4 units)

**629. Special Topics in Elementary Education**

Relevant issues, techniques, and topics in elementary education. A. Primary Language Literacy (4 units)

**630. Children's Literature in the Classroom**

Intensive study of children's literature as it applies in elementary and middle school classrooms with an emphasis on developing familiarity with the variety and wealth of literature available, strategies for classroom instruction and appropriate assessment tools. Prerequisite: EELB 345 or consent of instructor. (4 units)

**632. Mathematics Clinic**

Administration of diagnostic instruments and assessment procedures to elementary school students, followed by prescription and initiation of remedial measures to strengthen the mathematics areas. Prerequisites: MATH 301 and four additional quarter units in mathematics. (4 units)

**634. Advanced Social Studies Methods**

Advanced seminar for elementary educators exploring current research, curriculum, and methods in social studies instruction. (4 units)

**636. Advanced Science Methods**

Intensive study of teaching science in elementary school. Exploration, analysis, interpretation and implementation of science process teaching. Intended for experienced teachers. Prerequisite: consent of instructor. (4 units)

**639. Advanced Pedagogical Foundations for English Language Learners**

Comprehensive study of various theories, principles, and instructional practices designed to develop the linguistic, social and academic proficiency of English language learners. Key issues and concepts to be implemented in dual language classrooms include: linguistic development, first and second language acquisition, and the relationship between first language literacy and second language development. Relevant state and federal laws pertaining to the education of English learners, the impact of these mandates on student placement and school site instructional programs, the importance of students' families, cultural backgrounds and experiences and how these relate to successful school experiences for English learners are examined. Fulfills the credential requirement for EELB 313. Formerly EELB 654. Prerequisites: admission into the BCLAD Credential and M.A. in Education: Language, Literacy and Culture (Primary Language) Option. (4 units)

**640. The Education of K-12 English Language Learners**

Overview of programs, curricula, and resources for the education of English language learners. Strategies for English language development and methods for sustaining access to the core academic curriculum. Assessment techniques for initial placement and progress evaluation of learners. Psychological and sociocultural factors which affect first and second language development. Required for California SB 2042 clear credential. Formerly EDUC 640. (4 units)

**643. Advanced Social Studies and the Arts (Primary Language) Curriculum and Pedagogy**

Comprehensive course in curriculum and pedagogy in history/ social sciences and visual/performing arts. Emphasis on implementing state adopted curriculum standards and skills in an elementary school based on an in-depth understanding of concepts, skills, and strategies in history/social studies and the visual/performing arts. Includes designing instruction to meet academic and language needs of all learners including Spanish-speaking learners and learners with special needs. Use of bilingual/crosscultural teaching strategies and curriculum development, methods of integrating English and Spanish in the instructional program and evaluation of language skills are presented. Part of the course will be taught in Spanish. Requires a minimum six-hour field component including participation in teaching at an approved dual language setting if not concurrently enrolled in intern teaching. Fulfills credential requirement for EELB 534. Formerly EELB 648. (4 units)

**649. Advanced Literacy and Second Language Acquisition for the Intermediate Reader and Beyond**

Advanced study of literacy development for the intermediate reader and beyond for all learners including English learners, proficient English learners, and learners with special needs. Emphasis on developing higher level academic skills for complex reading, writing, speaking, and thinking; approaches to English language development (ELD); planning for both language and content instruction, literacy in the content areas; development of strategies to build comprehension and fluency; assessment techniques; and transfer of literacy skills from first to second language. In addition, a graduate research project will be required that focuses on acquiring English as a second language at the intermediate grade levels. Formerly EELB 655. Prerequisite: EELB 616. (4 units)

**656. Internship Seminar IV: Ethics and Legal Aspects of Teaching - Capstone**

Seminar for BCLAD Interns focusing on knowledge, skills and attitudes required for a first year teacher. Includes discussion of the issues in continuing development of the teaching work and experiences; and continuing development of the teaching portfolio. Also focuses on the legal and ethical aspects of teaching. Prerequisite: admission to the Multiple Subject BCLAD Credential program. (4 units)

**680. Practicum in Teaching English as a Second Language**

Simulation and classroom-based practice in teaching methods and materials to include planning, teaching performance, classroom organization, student management, and evaluation competencies. Prerequisites: (for CLAD certificate program only) EELB 312, or EESL 536, or ESEC 321; EELB 333 and 511 or ESEC 313 and 511. May be taken concurrently with ESEC 605. (4 units)

**697. Implementing Educational Change**

Seminar examining the relationships and techniques involved when teachers plan for educational change. The emphasis will be on change theory in the K-12 school setting. (Also offered as ESEC 697. Students may not receive credit for both.) Prerequisites: completion of all COE core courses; curriculum and instruction core courses, eight units of emphasis area and appropriate elective units. (4 units)



## **COURSE OFFERINGS IN EDUCATION: ENGLISH TO SPEAKERS OF OTHER LANGUAGES (EESL)**

### **Upper Division**

#### **521. Computer-Assisted Language Learning**

Survey of theory and practice in teaching English to speakers of other languages by means of computer applications including the internet, CD-ROM and multimedia-based software. Three hours lecture and two hours activity. (4 units)

#### **536. Crosscultural Teaching**

Methods and teaching techniques for teaching in multicultural and crosscultural settings in both ESL and EFL contexts. Developing cultural awareness of teachers to assist them in relating to and motivating culturally diverse students. May be offered through distance learning. Formerly EELB 536. (4 units)

#### **544. Reading Methods for TESOL**

Reading methods for English language learners, featuring literacy transfer from the first language, explicit instructions in phonetics, and emergent literacy for adults. (4 units)

#### **545. Writing Methods in TESOL**

Survey of contemporary approaches to writing, contrasting styles and formats appropriate for creative writing and personal essays with writing intended for purposes of textual analysis and social or cultural expression. Various computer technologies will be used to assist in idea generation, text processing, editing, and desktop publishing. Class will include peer-collaborative tutoring techniques. (4 units)

### **Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

#### **613. Cognition and Language Acquisition**

An analysis of the language acquisition process as it emerges from the early grammars of the child and develops into the complex grammatical structures and patterns of the mature individual. (4 units)

#### **614. Curriculum Design in TESOL**

Overview of school curricula and programs in the field of teaching English to speakers of other languages including development and evaluation of materials for ESL/EFL instruction. May be offered through distance learning. (4 units)

#### **615. Research in TESOL**

Offers a perspective on current research principles and investigation across a wide spectrum of topics in teaching English to speakers of other languages, including communicative competence, transfer, modalities of language use, learning styles and strategies, and language acquisition. (4 units)

#### **664. Advanced Research Methods in TESOL**

Analysis of research in English-language development in the classroom, including sociocultural, cognitive, and behavioral approaches to instructional discourses and mediational techniques. (4 units)

#### **665. Creative Teaching in TESOL**

Survey of creative teaching methods to enhance classroom second-language learning, including use of poetry, drama, art, and audio-video computer-assisted language-learning techniques. (4 units)

#### **670. Principles and Practice in TESOL**

Second language acquisition theory, methods for teaching English as a second language (ESL), development and evaluation of materials for ESL instruction. Formerly EELB 607 and EESL 607. (4 units)

#### **678. Studies in K-12 Classroom Discourse**

Discourse analysis of instructional language use by students and teachers in K-12 classrooms, including specially adapted academic instruction and English-language development for English learners, with a focus on contemporary research and acquisition of research techniques. (4 units)

#### **679. Fieldwork: Teaching English to Speakers of Other Languages**

Supervised field work in selected teaching methods and materials development. Formerly EELB 679A and ESEC 679A. Prerequisite: consent of advisor. (4 units)

#### **999. Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

## **COURSE OFFERINGS IN ENVIRONMENTAL EDUCATION (EENV)**

### **Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

#### **601. Graduate Independent Study**

Graduate level independent study to be conducted under direct supervision of a faculty member. No more than four units may be applied toward the master's degree. Prerequisites: EENV 635, consent of advisor, and approval of a written proposal by the graduate program coordinator. (2 or 4 units)

#### **620. Using Children's Literature to Teach Environmentally**

Indepth study of children's literature as it applies to both classroom and outdoor settings. Emphasis on evaluating literature for environmental concepts and utilizing strategies for interdisciplinary instruction. Formerly EENV 670E. (4 units)

#### **635. Environmental Education in the Curriculum**

An introductory course on integrating into the curriculum environmental concepts and values concerning the relationship of people with their natural and physical surroundings. Review of curricula, conceptual frameworks, resources and methods. (4 units)

#### **636. Teaching Current Environmental Issues**

Examines local relevant environmental issues and teaching strategies that can assist in understanding and analyzing these issues. Formerly EENV 670A. Prerequisite or corequisite: EENV 635. (2 units)

#### **642. Developing the Curriculum Through Outdoor Education**

Procedures and instructional materials for teaching out of doors and the integration of environmental education into the curriculum. Includes program development for resident outdoor school. Prerequisite: EENV 635. (4 units)

#### **643. Community Resources for Environmental Education**

Application of teaching resources and environmental issues. Survey of resource agencies. Organized visits to educational sites. Prerequisite: EENV 635. (4 units)

**644. Seminar in Environmental Education**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Formerly EENV 542. Prerequisite: graduate standing or consent of instructor. (4 units)

**650. Selected Topics in Environmental Education**

Techniques, topics and skills in environmental education, to be developed by the instructor. Formerly EENV 670K. Prerequisite: EENV 635. (4 units)

**651. Historical and Contemporary Readings in Environmental Education**

Seminar based on selected historical and contemporary readings in environmental education. Formerly EENV 670B. Prerequisite: EENV 635. (4 units)

**652. Nature Study in Environmental Education**

Strategies for designing and implementing nature study in educational settings. Formerly EENV 670L. (4 units)

**654. Fundraising Fundamentals in Environmental Education**

Techniques and methods for resource acquisition for environmental education programs. (4 units)

**656. Water Education in Environmental Education**

Strategies for design and implementation of water study in educational settings. (4 units)

**664. Research in Environmental Education**

Focus on recent developments in the field of environmental education research with emphasis on developing an introduction to a project/thesis and applicable literature review. Prerequisites: EENV 635 and consent of advisor. (4 units)

**679. Fieldwork: Environmental Education**

Field experiences apply academic skills including demonstration of leadership roles in curriculum planning, presentations and professional development related to environmental education. May be repeated as elective for a total of six units. Graded credit/no credit. Prerequisites: EENV 635 and consent of program advisor. (2-4 units)

**697. Master's Degree Project**

Independent graduate study conducted under the guidance of a program advisor and resulting in a written project. Prerequisites: advancement to candidacy and approval of a project plan by the student's advisory committee. (4 units)

**699. Thesis**

Independent graduate research conducted under the guidance of a program advisor and resulting in a written thesis. Prerequisites: advancement to candidacy and approval of thesis plan by student's advisory committee. (4 units)

**999. Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of environmental education, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of program coordinator, in last quarter of coursework or completed coursework for the program, and a 3.0 grade point average or higher in courses in program plan. (0 units)

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**COURSE OFFERINGS IN  
READING EDUCATION (ERDG)**

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**Upper Division****542. Seminar in Reading Education**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-4 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**620. Foundations of Reading and Writing**

Examination of theories of how children learn to read and write. (4 units)

**622. Basic Materials and Approaches to Reading and Writing**

Investigating, creating and making critical judgments about curriculum approaches and materials, including software, appropriate to different theoretical perspectives. Prerequisites: ERDG 620, 640 and 658. (4 units)

**624. Socio-psycholinguistics and Literacy**

Social and linguistic processes of literacy learning and the implications for instruction. Prerequisites: ERDG 620, 622, 625, 631, 632, 640, 642, 643 and 658. (4 units)

**625. Practicum in Reading and Writing**

Supervised application of reading and writing strategies with children at two or more reading levels in grades 1-3 in individual and small group settings. Prerequisites: ERDG 620, 622, 640, 642 and 658. (4 units)

**629. Special Topics in Literacy**

Relevant issues, techniques and topics in literacy. May be repeated for credit as topics change. Prerequisite: ERDG 620. (2 units)

**630. Practicum for Leadership in Reading and Writing**

Investigation of the various roles of leadership, including clinical skills required for work at site and district levels in reading and writing. Prerequisites: ERDG 620, 622, 624, 625, 631, 640, 642, 643 and 668 and permission of coordinator. (4 units)

**631. Curriculum Perspectives in Reading and Writing**

Examination of theoretical approaches that affect reading and writing curriculum. Prerequisites: ERDG 620, 622, 625, 640, 642 and 658. (4 units)

**632. Assessment/Evaluation in Reading and Writing**

Review of formal and informal reading and writing assessment instruments, methods of data collection, and analysis. Prerequisites: ERDG 620, 622, 625, 640, 642, and 658. (4 units)

**633. Multi-modal Meaning Systems in Literacy**

How various meaning systems, including the arts, affect literacy learning. Prerequisite: ERDG 620. (4 units)

**640. Early Reading: Assessment and Intervention**

Investigation of reading intervention assessments and strategies appropriate for use in the primary classroom. Prerequisites: ERDG 620 and 658. (4 units)

**641. Multicultural Perspectives and Issues of Literacy**

Understanding multicultural perspectives and issues within the contexts of literacy with diverse populations. Prerequisite: ERDG 620. (4 units)

**642. Images of Culture through Children's Literature**

Review of children's literature of diverse cultures and organizing this literature for curriculum implementation. Exploration of concepts of diversity and culture as they affect literacy learning. (Also offered as ENG 535. Students may not receive credit for both.) Prerequisites: ERDG 620 and 658. (4 units)

**643. Critical Issues in Intermediate Reading and Writing**

Critical issues that affect the teaching of reading and writing to students in grades 4-8. Prerequisites: ERDG 620, 622, 625, 631, 632, 640, 642 and 658. (4 units)

**658. Literacy and Language Processes**

Methods for integrating the language development processes that underlie effective literacy curriculum. Prerequisite: ERDG 620. (4 units)

**679. Field Work: Reading/Language Arts Specialist**

Field experiences including demonstration of leadership roles in curriculum planning, inservice presentations and professional development. Graded credit/no credit. Prerequisites: ERDG 620, 622, 624, 625, 630, 631, 632, 640, 642, 643, 658, and permission of reading program coordinator. (4 units)

**999. Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

**COURSE OFFERINGS IN  
SCIENCE EDUCATION (EDSC)**

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**623. The Science Curriculum**

Examination of the goals and curriculum of school science including key science education reports, a historical perspective of science education, science standards, and exemplars in elementary, middle school and high school science. Formerly EDUC 623. (4 units)

**634. Research in Science Education**

Focus on research developments in science education including science learning, culture and gender in science learning, science teaching, curriculum and assessment in science, and science teacher education. Formerly EDUC 634. (4 units)

**643. Assessment in the Science Classroom**

Assessment techniques in science education including the development of assessment tools to obtain reliable and useful information about student achievement in science. (4 units)

**644. Inquiry Teaching and Learning in the Science Classroom**

Introduction to inquiry teaching and learning in science. Focuses on the design of questions and concepts to support scientific investigation in the classroom and the use of appropriate classroom teaching and learning strategies, materials, and assessment to guide scientific investigation in the K-12 classroom. Formerly EDUC 644. (4 units)

**647. Advanced Topics in Teaching Science**

Discussion of the efficacy of various models of science teaching, including how students learn science, facilitating learning in the science classroom, and technology and resources. (4 units)

**699. Master's Degree Project**

Development and completion of master's thesis/project. Prerequisite: advancement to candidacy. (4 units)

**999. Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, completion of course work in the program and in good academic standing. (0 units)

**COURSE OFFERINGS IN  
SECONDARY EDUCATION (ESEC)**

**Upper Division**

**502. Special Topics for Undergraduates in Secondary Education**

Issues and techniques in selected topics current in secondary education. This course is designed for the Integrated Teaching Track student. Senior Status in the degree program is required. (2 units)

**506. Curriculum and Instruction in Content Areas**

Accessibility of secondary school content to all students from varied populations. Student evaluation, assessment and practice that provides equal access to content area in the secondary schools. Reviews and reflects on application of methodologies and strategies through micro-teaching. Formerly ESEC 505 and 508. Prerequisites: admission and good standing in the program or consent of program director.

- E. English (4 units)
- F. Foreign Languages (4 units)
- L. Life and Physical Sciences (4 units)
- M. Mathematics (4 units)
- P. Physical Education (4 units)
- S. Social Sciences (4 units)

**510. Teaching English as a Second Language in Secondary Schools**

Offers a broad overview of approaches and methods used in language teaching, but will focus specifically on practices that can support the development of English language proficiencies needed for success in secondary schools. Prerequisites: ESEC 321 and 333. (4 units)

**511. Theory and Practice for English Language Development (ELD)**

Study and practice of the design, implementation, and assessment of a communication-based curriculum for the English language learners in all stages of second language development. Includes selection and use of appropriate ELD strategies and materials. Prerequisites: EELB 312, EESL 536 or ESEC 321; and EELB 313 or ESEC 333. (4 units)

**512. Principles of Pedagogy**

Teacher performance assessment of 1 and 2 which consists of Teacher Performance Expectations 1, 3, 4, 6, 7, 8, 9 and 12. Graded credit/no credit. Prerequisites: admission and good standing in the program or consent of program director. (2 units)

**514. Assessment and Reflection of Instruction**

Teacher performance assessment of 3 and 4 which consists of Teacher Performance Expectations 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 13. Graded credit/no credit. Prerequisites: admission and good standing in the program or consent of program director. (2 units)

**515. Issues and Trends in Secondary Education**

Examination of issues and trends in secondary education. May be repeated with consent of advisor. Prerequisite: consent of advisor. (2 units)

**517. Middle School Curriculum and Instruction**

Examination of middle school curriculum design and instructional practices. (4 units)

**521. Instructional Strategies and Approaches to Middle Grade**

Instructional methods, techniques and evaluation procedures especially appropriate for middle schools. (4 units)

**523. Mainstreaming Exceptional Students in the Secondary Classroom**

Addresses the needs of exceptional students in the mainstreamed secondary school classroom. Current research, practice and legislation will be examined as they apply to the secondary school teacher and students. (2 units)

**542. Seminar in Secondary Education**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-4 units)

**545. Adolescents Literacy Tutoring**

Tutor training for students to work with low literacy and at-risk adolescents in reading. Topics include literacy methods, multicultural issues, learning disabilities and use of educational software. 20 hours lecture and 48 hours of tutoring an adolescent in a field-based setting. Prerequisite: consent of instructor. (4 units)

**550. Student Teaching**

Full-time teaching in a single subject setting at a public school. Graded credit/no credit.

- A. Experience. Student teaching candidates are required to conduct observations and complete fieldwork assignments from the various program courses. In addition, student teaching candidates are required to tutor a designated English Language Learner and a student with special needs. (100 hours). Prerequisite: must be enrolled in a single subject program or consent of program director. (2 units)
- B. Prerequisite: successful completion of ESEC 550A. (4 units)
- C. Prerequisite: successful completion of ESEC 550B. (8 units)

**555. Internship Seminar I**

Seminar for secondary interns, focusing on knowledge, skills and attitudes required of a first year teacher. Graded credit/no credit. Prerequisite: ESEC 554. (2 units)

**556. Internship Seminar II**

Seminar for secondary interns, focusing on knowledge, skills and attitudes required of a first year teacher. Graded credit/no credit. Prerequisite: ESEC 555. (2 units)

**560. Study Skills for Secondary School**

Programs, methods and materials for teaching study skills to exceptional junior and senior high school students. Study strategies include: note taking, organization, memory devices, study contracts and preparation for examinations. (4 units)

**570. Intern Supervision**

Full-time teaching in a single subject setting in a public school. Graded credit/no credit. Formerly ESEC 422.

- A. I. Prerequisite: enrollment in Single Subject Program. (6 units)
- B. II. Prerequisite: satisfactory completion of ESEC 570A and consent of program coordinator. (6 units)
- C. III. Prerequisite: satisfactory completion of ESEC 570B. (6 units)
- D. IV. Prerequisite: satisfactory completion of ESEC 570C. (6 units)
- E. V. Prerequisite: satisfactory completion of ESEC 570D. (6 units)
- F. VI. Prerequisite: satisfactory completion of ESEC 570E. (6 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**602. Special Topics in Secondary Education**

Exploration, demonstration and application of issues and techniques in selected topics of current concern in secondary education (such as, inquiry-discovery teaching, simulations and games, alternate education programs, consumer education, team teaching, career education, teacher as counselor). May be repeated for credit as topics change. (2 units)

**605. Curriculum for Specially Designed Academic Instruction in English (SDAIE)**

Study and practice of the design, implementation, and assessment of specially designed academic instruction in English (SDAIE). Includes selection and use of appropriate SDAIE strategies and materials. (Also offered as EELB 605. Students may not receive credit for both.) Prerequisites: EELB 312, EESL 536, or ESEC 321; EELB 333 or ESEC 333; and ESEC 511. (2 units)

**622. Practicum in Middle Grade Education**

Practicum for middle grade philosophies, objectives, and functions. Formerly ESEC 522. Prerequisites: ESEC 443, 617 and 621. (4 units)

**623. Foundations of Middle School Education**

History and philosophical foundations of middle school education; examination of theories and research related to middle school students, curriculum, programs and practices. (4 units)

**666. Techniques and Applications of Mathematics Education**

Applications of theory in mathematics teaching including materials development in the design and implementation of mathematics instruction, audiovisual technology, computer-assisted instruction, and nontraditional curricula. Focus on techniques in pre-algebra, algebra, geometry, analytic geometry, trigonometry and pre-calculus. (4 units)

**672. Educational Assessment in Mathematics Teaching**

Program and learner assessment in mathematics using curriculum evaluation, testing, and evaluation systems for the purpose of improving instruction through problem diagnosis, intervention and redesign. (4 units)



**678. Mathematics Clinic for Secondary Education**

Administration of diagnostic instruments and assessment procedures to secondary school students followed by prescription and initiation of remedial instruction to strengthen mathematics skills. (4 units)

**680. Practicum in Teaching English as a Second Language**

Simulation and classroom-based practice in teaching methods and materials to include planning, teaching performance, classroom organization, student management, and evaluation competencies. Prerequisites: (for M.A. in Education, Teaching English as a Second Language Option) consent of advisor; (for CLAD certificate program only) EELB 312, or EESL 536, or ESEC 321; EELB 313 and 511 or ESEC 333 and 511. May be taken concurrently with ESEC 605. (4 units)

**697. Implementing Educational Change**

Seminar examining the relationships and techniques involved when teachers plan for educational change. The emphasis will be on change theory in the K-12 school setting. (Also offered as EELB 697. Students may not receive credit for both.) Prerequisites: completion of all COE core courses; curriculum and instruction core courses, eight units of emphasis area and appropriate elective units. (4 units)

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**COURSE OFFERINGS IN  
SPECIAL EDUCATION (ESPE)**


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**Upper Division****515. Language and Literacy for Children Under Five With Special Needs**

An intensive study of early literacy and language skills including English as a second language, typical and atypical development, assessment, instruction, and guidelines as it relates to infants, toddlers, and young children who may be at-risk. (4 units)

**523. Mainstreaming Handicapped Individuals in the Elementary Classroom**

Introduction to the adaptation of curriculum, methods and materials necessary for accommodating exceptional individuals in the regular elementary classroom. (2 units)

**529. Introductory Methods for Special Education**

Instruction in positive classroom and behavior management, effective teaching skills, modification of core curriculum, assessment techniques, IEP development, and relationships with other professionals. (4 units)

**530. Psychology and Education of Exceptional Individuals**

Characteristics and educational implications of physical, intellectual, social and emotional deviations among exceptional individuals. Ethical and legal aspects of special education. Observations in educational settings. (4 units)

**532. Introduction to Teaching Individuals with Exceptional Needs**

Learning characteristics of individuals with handicaps related to educational procedures and intervention strategies. Study and observation of education and intervention theory and practices. Prerequisite: ESPE 530 or consent of instructor. (4 units)

**538. Introduction to Teaching the Gifted and Talented**

Definition, characteristics and development of the gifted and talented individual. Identification procedures. Current legislation and educational practices. Eight hours of class and activities weekly. Prerequisite: consent of instructor. (4 units)

**539. Programs for Teaching the Gifted and Talented**

Development of school programs for gifted and talented: identification, objectives, scheduling, curriculum, materials and program assessment. Prerequisites: ESPE 538 and consent of instructor. (4 units)

**540. Strategies for Remedial Teaching**

Methods of diagnosing needs, teaching basic subjects; organizing curriculum, and controlling behavior of low achieving students in the regular elementary classroom. (4 units)

**542. Seminar in Special Education**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-4 units)

**545. Computer Technology and Assistive Devices**

Review of, and training in, computer technology and assistive devices that provide solutions to problems in educational and employment environments faced by persons with disabilities. Two hours lecture and two hours laboratory. Graded A,B,C/no credit. Prerequisite: consent of instructor. (3 units)

**570. Teaching Students with Disabilities in the General Education Classroom**

Advanced study of special populations in the mainstream classroom for general educators. Teachers will display knowledge, skills and strategies for teaching students with disabilities in the general education classroom. Demonstrates the ability to create a positive inclusive climate for individualized assessment and instruction for students with special needs and/or abilities utilizing grade appropriate State adopted standards, collaborative professional relationships, and an understanding of local and federal acts regarding special education. Observations in educational settings are required. Course may be offered on-line. (4 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**609. General and Special Education Field Experiences**

Supervised field experiences in appropriate program topics. Requires a minimum of 120 hours field experience in the appropriate education setting. Includes general education experiences. All course work for Level I Preliminary Education Specialist Credential must be completed prior to enrollment in field experience or one course may be taken concurrently with consent of program coordinator. Student must meet subject matter competency requirement to be eligible for field experience. Application is required one quarter in advance of enrollment. Contact the Special Education Office for additional information regarding application.

A. Mild/Moderate Disabilities. Prerequisites: (for elementary) EELB 301 or PSYC 320; EELB 317; 441; and 445 or 446; (for secondary) ESEC 332; EELB 423; ESEC 443 or PSYC 320; ESEC 445; ESPE 529, 530, 624, 637, 655, 656 and consent of program coordinator. (8 units)

C. Moderate/Severe Disabilities. Prerequisites: (for elementary) EELB 301 or PSYC 320; EELB 317; 315 or 316; 423; (for sec-

**436 / Education**

ondary) ESEC 332; EELB 423; ESEC 443 or PSYC 320; ESEC 445; ESPE 529, 530, 624, 637, 655, 656 and consent of program coordinator. (8 units)

**624. Managing Learning and Social Communities**

Designed to provide strategies for managing the classroom, handling individual behavior problems, developing student autonomy, preventing classroom disruptions and maintaining a positive learning environment. Provides a practical knowledge base and management strategies for serious problem behavior and appropriate intervention procedures. Prerequisites: ESPE 529 and 530. (4 units)

**626. Curriculum Development for Individuals with Physical Handicaps**

Strategies and implications for teaching physically handicapped children and youth in mainstream and special education settings. (4 units)

**630. Topics in Research in Teaching and Learning**

Survey of current research in teaching and learning. Prerequisite: consent of instructor.

- A. Gifted and Talented (4 units)
- B. Special Education (4 units)

**633. Reflective Inquiry Seminar and Induction Plan**

Initial professional Level II course for the special education credential. Designed to culminate the content completed in Level I courses and to establish the induction plan; the concluding activity is the Individualized Induction Plan (IIP). The IIP is completed in collaboration with student, university, and local education agency. Twenty hours of fieldwork required. Prerequisites: completion of Level I requirements and consent of program coordinator. (4 units)

**635. Effective Communication with Professionals and Families**

Develop effective communication skills to foster an atmosphere of collaboration among professionals and families, to support quality programs for students with disabilities. Models for collaboration and consultation will be explored. Prerequisites: Level I Preliminary Education Specialist Instruction Credential and ESPE 633. (4 units)

**637. Assessment and Evaluation**

Techniques for identification and assessment for general and special education. Gathering diagnostic information in academic, social-emotional, language, and perceptual-motor areas for program preparation and implementation. Prerequisites: ESPE 529 and 530. (4 units)

**644. Problems in Educational Assessment**

Teacher-made tests, standardized tests and other published instruments of use in assessing growth in the affective, psychomotor and cognitive domains. (4 units)

**646. The Resource Specialist in Special Education**

Development and evaluation of consultation and coordination procedures for the special education resource specialist. Prerequisites: ESPE 630B and special education specialist credential or consent of instructor. (4 units)

**649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation**

Methods, materials and strategies for facilitating career, vocational and adult skills development in learners with disabilities. Interfacing with agencies and other support providers in the transition from secondary programs to adult life. Prerequisites: Level I Preliminary Education Specialist Credential and ESPE 633. (4 units)

**650. Development and Assessment of Young Children with Disabilities**

Knowledge of atypical development, developmental risk factors (including those for infants with low-incidence disabilities), the rights and roles of the family, screening and assessment measures, and service delivery models. Prerequisites: ESPE 529, 530, 637, or consent of instructor. (4 units)

**651. Curricular Strategies for Students with Moderate/Severe Disabilities**

Assessment, procedures and instructional strategies for learners with moderate/severe disabilities. Emphasis placed upon data-based, functional instruction. A 20-hour practicum will be required. Prerequisites: ESPE 529, 530, 624 (not applicable to students with Early Childhood Special Education Emphasis) and 637. (4 units)

**652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities**

Principles of systematic instruction to community-based instruction, functional academics, language training, and social skills training. Application of computer and other technology to learners with severe handicaps. A 20-hour practicum will be required. Prerequisites: Preliminary Level I Education Specialist Credential: Moderate/Severe and ESPE 633. (4 units)

**653. Seminar on Moderate/Severe Disabilities**

Advanced seminar designed to study current issues and empirical research findings relating to the education of students with moderate and severe disabilities. Prerequisites: ESPE 529, 530, 624, 637, 651, and 652. (4 units)

**655. Curriculum and Methods in Special Education: Language Arts**

Methods, materials and strategies for exceptional learners in the areas of language arts: reading, writing, speaking and listening. Prerequisites: ESPE 529, 530, 624, and 637. (4 units)

**656. Curriculum and Methods in Special Education: Core Subjects**

Methods, materials and strategies for designated subject areas with particular emphasis on adapting and modifying curriculum from general education frameworks for students with mild/moderate special needs. Prerequisite: Preliminary Level I Education Specialist Credential: Mild/Moderate. (4 units)

**657. Seminar on Mild/Moderate Disabilities**

Synthesis and application of information on assessment, instruction, development and delivery of quality instruction, providing instruction and appropriate support for use in regular education settings. Prerequisites: ESPE 529, 530, 624, 637, 655 and 656. (4 units)

**660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs**

Critiques basic concepts and theories related to this special population. Includes cultural characteristics, cultural transmission, acculturation and second language acquisition, particularly as they relate to assessment, instructional programming, parent involvement strategies and collaboration with service providers for students with disabilities. Prerequisites: ESPE 529, 530, 624, and 637. (4 units)

### 665. Curriculum and Methods in Special Education: Early Childhood Special Education

Strategies and techniques for teaching early childhood special education in a variety of settings. Special consideration of family in the process of educating children birth through six years of age with disabilities or who are at risk of developing disabilities. Prerequisites: ESPE 529, 530, 637 and 691C. (4 units)

### 679. Special Education Fieldwork

Supervised field experiences in special education. Requires a minimum of 80 hours field experience in the appropriate setting. All course work for Level II Professional Clear Education Specialist Credential must be completed prior to enrollment in field experience or one course may be taken concurrently with consent of program coordinator. Application is required one quarter in advance of enrollment. Contact the Department of Special Education for additional information regarding application.

- A. Mild/Moderate Disabilities I. To be taken only by students who hold a California Preliminary/Professional Clear Multiple Subject or Single Subject Credential. Prerequisites: ESPE 529, 530, 624, 637, 655, 656 and consent of program coordinator. (4 units)
- C. Moderate/Severe Disabilities I. To be taken only by students who hold a California Preliminary/Professional Clear Multiple Subject or Single Subject Credential. Prerequisites: ESPE 529, 530, 624, 637, 651, 652 and consent of program coordinator. (4 units)
- E. Resource Specialist. Prerequisite: Special Education Specialist Credential. Prerequisite or corequisite: ESPE 646. (4 units)
- F. Early Childhood Special Education I. Prerequisites: (for Level I Credential students) ESPE 529, 530, 637, 650, 651, 660 and 665; (for certificate students) ESPE 650, 651, 652, 665, HD 270 and 280. (4 units)

### 680. Intern Teaching: Special Education

- A. Supervised full-time teaching under the Mild/Moderate Intern Credential. Must be repeated for a total of 48 units. Graded credit/no credit. Prerequisite: admission to the Learning Handicapped Intern Program. (8 units)
- B. Supervised full-time teaching under the Moderate/Severe Intern Credential. Must be repeated for a total of 48 units. Graded credit/no credit. Prerequisite: admission to the Severely Handicapped Intern Program. (8 units)
- C. Supervised full-time teaching under the Early Childhood Special Education Intern Credential. Must be repeated for a total of 24 units. Graded credit/no credit. Prerequisite: admission to the Early Childhood Special Education Intern Program. (8 units)

### 685. Advanced Behavior Management

Advanced techniques for teaching students with serious problem behaviors including crisis management and other interventions derived from psychodynamic, psychoeducational, behavioral, cognitive and social learning theory. Field study experience required. Prerequisites: ESPE 530, 620, 635, 637, 640, 679A, 679C, or consent of instructor. (4 units)

### 691. Issues and Trends in Special Education

Specialized in-depth study of selected topics in special education. Field study experience included. Prerequisites: ESPE 529, 530, 624, and 637.

- A. Current Issues (4 units)
- B. Collaboration and Consultation (4 units)
- C. Early Childhood (4 units)
- D. Instructional Technologies (4 units)
- E. Administration (4 units)
- F. Historical (4 units)
- G. Special Populations (4 units)

- H. Transition (4 units)
- J. Post Secondary (4 units)

### 694. Special Education Leadership Evaluation and Outcomes

Presentation of the Professional Development Portfolio demonstrating that the candidate has met the California Commission on Teacher Credentialing (CTC) Standards for a Clear Professional Specialist Credential. Prerequisites: California Preliminary Specialist Credential in the same credential area, completion of Level II coursework, and consent of the Program Director. Eligibility: candidates who did not participate in a CTC approved Induction Program during his/her Level II Credential Program. The Individual Induction Plan, Professional Development Portfolio, and non-University activities will be evaluated.

- A. Candidates who participated in an approved Induction Program or seeking a second Specialist Credential should take ESPE 694B. (4 units)
- B. Candidates who participated in an approved Induction Program or seeking a first Specialist Credential should take ESPE 694A. (8 units)

### 999. Comprehensive Examination

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

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## COURSE OFFERINGS IN INSTRUCTIONAL TECHNOLOGY (ETEC)

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### Upper Division

#### 500. Foundations in Instructional Technology

Introduction to instructional technology and its foundations. Includes electronic media, operating systems, networks and multimedia in educational and corporate environments. This is a prerequisite for all other ETEC courses; an IT orientation with program faculty/advisors will be part of the first week of the course. (4 units)

#### 537. Computer Based Technology in Education I

Operations, terminology and components of computing systems. Emphasis on the appropriate use of computer-based technology for information collection, analysis and management in the instructional setting. No programming or previous computer experience required. May not be taken for credit by students who have received credit for CSCI 127. One hour lecture and two hours laboratory. Meets Level I competencies for the preliminary credential. (2 units)

#### 542. Seminar in Instructional Technology

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Graded credit/no credit. Prerequisite: graduate standing or consent of instructor. (1-4 units)

#### 543. Technology and Learning I

Explores connections between technology and the teaching and learning process through current research in instructional technology and learning theories. Prerequisite: ETEC 500. (4 units)

#### 544. Design and Development of Instructional Materials I

Examination of various models of instructional design and procedures used in the production of instructional materials. Prerequisite: ETEC 500. (4 units)



**546. Computer Based Technology in Education II**

Application of computer-based technology for information collection, analysis and management to support teaching, learning and learning environments. Meets technology competencies for the professional credential. Three hours lecture and two hours laboratory. (4 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**614. Needs Assessment: Issues and Techniques**

Principles and techniques in identifying needs and discrepancies between status quo and ideal status from the perspectives of organizational and instructional development. Formerly ETEC 612. Prerequisites: ETEC 500, 543, and 544 or consent of instructor. (4 units)

**617. Instructional Development and Change Process**

Theories and methods for evaluating each stage of instructional product development processes and change theory relate to adoption of instructional products. Formerly ETEC 611. Prerequisites: ETEC 500, 544, and 614 or consent of instructor. (4 units)

**621. Reading/Language Arts with Technology Integrations**

Using technology to enhance teaching of literacy and language. Emphasis is on building curriculum that effectively uses computers and other technology. Staff development and leadership in designing models of integration into language arts will be explored. Three hours lecture and two hours laboratory. Prerequisite: ETEC 546 or equivalent. (4 units)

**623. Technology for Educational Leaders**

Assisting educational leaders in developing the knowledge and skills needed to apply computer technology to educational settings. Prerequisite: ETEC 500 or consent of instructor. (4 units)

**634. Information Systems in Education**

Information systems providing history, current development and future potential of on-line and off-line data bases. Methods of search and retrieval of on-line and off-line information will be explored. Three hours lecture and two hours laboratory. (4 units)

**643. Technology and Learning II**

Explores connections between technology and the teaching and learning process through a study of research design, data collection and analysis. Emphasis on conducting research in instructional technology and learning theories for M.A. research project. Prerequisites: EDUC 607, ETEC 500 and 543. (4 units)

**644. Design and Development of Instructional Materials II**

Advanced application of instructional design models and procedures to produce instructional materials for the M.A. project. Prerequisites: ETEC 500 and 544. (4 units)

**674. Telecommunications in Education**

Various telecommunication technologies in education and instructional design strategies for distance courses. Discussions and hands-on experience are used to apply those systems. Prerequisites: ETEC 500 and 544 or consent of instructor. (4 units)

**676. Advanced Topics in Instructional Technology**

Intensive study of advanced topics such as multimedia, interactive communication technology, networking and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Formerly ETEC 675. (2-8 units)

**692. Practicum in Educational Technology**

Application of educational technology theories in field settings. Directed experiences in educational or corporate settings. Requires a written agreement with a sponsoring agency and departmental approval of that agreement. Graded credit/no credit. Prerequisite: ETEC 500 or consent of instructor. (4 units)

**699. Master's Degree Project**

Assisting Instructional Technology Master's students in completing their M.A. project. (4 units)

**999. Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

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**COURSE OFFERINGS IN  
VOCATIONAL EDUCATION (EVOC)**

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**Upper Division****501. Principles and Methods for Teaching Designated Subjects**

Application of instructional methodology for designated subjects with emphasis on student performance objectives, lesson planning, teaching methods, educational materials, and evaluation techniques. (4 units)

**502. Instructional Support for Teaching Designated Subjects**

Examination of instructional support for designated subjects with emphasis on program advisory committees, student placement, facilities planning, budgeting, student organizations, public relations, career advancement and educational philosophy. Prerequisite: EVOC 501 or consent of instructor. (4 units)

**503. Contemporary Issues in Teaching Designated Subjects**

Examination of contemporary issues in designated subjects with emphasis on individual education plans, basic skills, school law, multicultural activities, special needs students, safety and performance assessment instruments. Prerequisite: EVOC 501 or consent of instructor. (4 units)

**504. Principles of Adult Education**

History, philosophy and social significance of adult education, especially in California; the adult as a student; investigation of the theories and application of the principles of adult education. (4 units)

**508. Organization and Structure of Designated Subjects Programs**

Investigation and application of principles of facility planning, budgeting, funding sources and related topics as they apply to designated subjects instructional programs. Prerequisite: a valid designated subjects teaching credential. (4 units)

**509. Personnel Management in Designated Subjects Programs**

Principles of personnel selection, evaluation, supervision, school law and related topics as they apply to designated subjects instructional programs. Prerequisite: a valid designated subjects teaching credential. (4 units)



**510. Field Work in Coordination and Supervision of Designated Subjects Programs**

Supervised field work in coordination and supervision of designated subjects programs. Students will contract to perform administrative tasks related to site-based instructional programs. Prerequisites: a valid designated subjects teaching credential and completion of, or concurrent enrollment in EVOC 508 and 509 or consent of instructor. (4 units)

**518. Field Work in Designated Subjects**

Supervised field work for the Designated Subjects Teaching Credential. Includes lesson planning and instructional delivery in an actual teaching environment with evaluation of teaching performance by the on-site supervisor. Prerequisites or corequisites: EVOC 501 and consent of instructor. (4 units)

**519. Computer Applications for Vocational Education Teachers**

Application of personal computers to the preparation of written, graphic, data base, telecommunication and interactive media materials used by teachers of vocational, occupational and professional courses. Three hours lecture and two hours laboratory. (4 units)

**520. Curriculum Development in Vocational Education**

Theory and principles of curriculum development as they apply to vocational, occupational and professional courses. Students will develop a complete curriculum for a course that they could teach. Prerequisite: EVOC 501 or its equivalent. (4 units)

**521. Assessing Vocational Student Progress**

The development and use of evaluation instruments such as written tests, and criterion-referenced and norm-referenced evaluations. Prerequisite: EVOC 520 or consent of instructor. (4 units)

**522. Directing and Managing Occupational Programs**

Principles and techniques of design, implementation, management and evaluation of training organizations and programs. Prerequisite: EVOC 520, MGMT 302 or PSYC 302. (4 units)

**523. Learning Theory and Instructional Research Applied to Adult Learners**

Application of psychological principles to learning processes relevant to adult learners. Focus is on informed decisions about psychoeducational designs which will maximize individual development in cognitive, affective, conative, and psychomotor areas. (4 units)

**542. Seminar in Vocational Education**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-4 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**637. Foundations of Vocational Education**

Historical context, philosophy and development of vocational education. Prerequisite: graduate standing. (4 units)

**638. Critical Issues for the Professional Vocational Educator**

Current legislation, program planning, professional development and current issues in vocational education. Prerequisite: EVOC 637 or consent of instructor. (4 units)

**639. Professional Competencies in Vocational Education**

Roles of professional organizations, research in vocational education, grant writing and strategies for project evaluation. Prerequisite: EVOC 638 or consent of instructor. (4 units)

**640. Topics in Education**

Study of selected areas of advanced education topics to be determined the instructor. May be repeated for credit with consent of instructor as topics change. Prerequisites: graduate standing and consent of instructor. (2 units)

**999. Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

**Additional information about all EVOC courses is posted on the program web site at: [HTTP://VE.CSUSB.EDU](http://ve.csusb.edu)**

# EDUCATIONAL ADMINISTRATION

## Master of Arts in Educational Administration

### Masters Program Office

College of Education Building, Room 364

(909) 537-7404 <http://www.csusb.edu/coe>

**NOTE: Room numbers effective Fall 2008, check Summer  
Schedule of Classes for current locations**

**FACULTY:** Jim Hill, Angela Louque, Deborah Stine

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## MASTER OF ARTS IN EDUCATIONAL ADMINISTRATION

### Requirements (45 units)

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#### Admission to the Program

In addition to the general requirements of the university for admission as a postbaccalaureate student, specific requirements for admission to the Master of Arts in Educational Administration are:

1. An application for admission to the program must be submitted;
2. A valid California teaching, pupil personnel or health services credential or full-time designated subject credential (with B.A.);
3. A cumulative grade point average of 3.0 ("B") in all courses taken in education;
4. One year of full-time teaching credentialed school-related, experience in counseling or nursing, substitute teaching does not apply;
5. Successful completion of the California Basic Educational Skills Test (CBEST);
6. Completion of the graduate entrance writing requirement.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program. Normally, a student is expected to be working concurrently for a credential in administrative services.

#### Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified graduate standing;
2. Completed, with a grade point average of 3.0 ("B"), 16 quarter hours of course work, at least 12 of which must have been at this university and approved by an advisor in the Educational Administration program;

**Note:** Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.

3. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the Dean of the College of Education and the Dean of Graduate Studies.

#### Requirements for Graduation

1. A minimum of 45 quarter units of acceptable work with 32 completed in residence at this university;
2. A minimum of 24 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;

4. Successful completion of the Comprehensive Evaluation in Educational Administration (EADM 692) or Master's Thesis in Educational Administration (EADM 699);
5. The graduation writing requirement is met upon successful completion of EADM 633 and/or 699;
6. Any additional general requirements not cited above and listed on Page 350.

### Degree Requirements (45 units)

Prerequisite or Corequisite courses (5 units)

1. EADM 601. Educational Leadership and Ethics (4)
2. EADM 603. Application of Leadership, Ethics and Organizational Theory (1)

Core Courses (36 units)

1. EADM 602. Research Methods in Educational Administration (4)
2. EADM 607. Culture, Politics and Communication in a Diverse Society (4)
3. EADM 610. Supervision and Evaluation of Teachers (4)
4. EADM 613. School Personnel Management (4)
5. EADM 617. Cultural and Political Experiences (1)
6. EADM 619. Policy, Governance and Legal Aspects of Education (4)
7. EADM 620. Practicum in Educational Administration (1)
8. EADM 622. Curriculum, Instruction and Assessment (4)
9. EADM 625. School Finance and Business Management (4)
10. EADM 627. Portfolio Evaluation (2)
11. Four units chosen from:
  - EADM 621A. Fieldwork in Educational Administration I (2)
  - EADM 621B. Fieldwork in Educational Administration II (2)
  - EADM 630A. Internship Fieldwork in Educational Administration (2)
  - EADM 630B. Internship Fieldwork in Educational Administration (2)

Culminating Experience (4 units)

1. Students must choose one of the following:

#### Comprehensive Examination

EADM 692. Comprehensive Evaluation in Educational Administration (4)

EADM 999. Comprehensive Examination (0 units)

#### Thesis

EADM 699. Master's Thesis in Educational Administration (4)

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## COURSE OFFERINGS IN

### EDUCATIONAL ADMINISTRATION (EADM)

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#### Upper Division

##### 511. Contemporary School Business Management

Analysis of various approaches to school business administration, current trends, models of organization and management, relationship to county, state, and federal agencies, and functions of business management in relation to the size of school districts. (4 units)

##### 512. School Finance and Budgeting

Legal considerations in finance and budgeting, evaluation of the California school finance program, fiscal relationship to county, state and federal agencies, budget control, school revenues and expenditures and budgetary procedures and processes. (4 units)

##### 513. School Accounts and Related Functions

School fund accounting, attendance accounting, organization and review of student body accounts, state and federal project funding, and

certificated and classified payroll laws and regulations pertaining to school accounting procedures. Prerequisite: ACCT 211 or equivalent. (4 units)

#### **514. School Business Management and Service Functions**

A variable topic course on management and service functions in the school business office. May be repeated for credit as topics change.

- A. Purchasing, Warehousing and Inventory (2 units)
- B. Risk Management (2 units)
- C. Facilities Planning, Construction (2 units)
- D. Computer Services in Business Functions (2 units)
- E. Maintenance, Operations and Transportation (2 units)
- F. Employee Supervision (2 units)

#### **519. Legal Aspects of Classified Personnel Administration**

Current laws and court decisions affecting public school education with a focus on classified personnel administration and laws of California. (4 units)

#### **525. Classified Personnel Administration**

Recruitment, selection, induction, training, evaluation and contract negotiations involving classified employees under merit and non-merit systems. (4 units)

#### **542. Seminar in Educational Administration**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-4 units)

#### **Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

#### **601. Educational Leadership and Ethics**

Introduction to school administration including leadership, vision, and ethics. Explores the theory and practice of school administration and restructuring. The leadership focus includes shared decision-making, problem solving, change management, planning, conflict management, evaluation, and school culture and climate. Must be taken during the first quarter of the program concurrently with EADM 603. Prerequisite: admission to Educational Administration program or consent of program coordinator. (4 units)

#### **602. Research Methods in Educational Administration**

Introduction to qualitative, quantitative and action research for school administrators using APA guidelines. Includes a proposal for an action research project. Prerequisites or corequisites: EADM 601, 603, and consent of program coordinator. (4 units)

#### **603. Application of Leadership, Ethics and Organizational Theory**

Introduction to the assessment and fieldwork component of school administration including leadership, vision, and ethics. Initial assessment of candidate competence on the California Standards of Quality and Effectiveness for Preliminary Administrative Services Credentials. Candidates apply concepts of leadership, ethics and organization developed in EADM 601. Must be taken during the first quarter of the program concurrently with EADM 601. Prerequisite: admission to Educational Administration program or consent of program coordinator. (1 unit)

#### **607. Culture, Politics and Communication in a Diverse Society**

Impact of educational administrators and collaboration with families and community members, responding to diverse community interests and needs, and mobilizing community resources. Emphasis on understanding, responding to, and influencing the larger political, social, economic, legal and cultural context. Prerequisites or corequisites: EADM 601 and 603 or consent of program coordinator. (4 units)

#### **610. Supervision and Evaluation of Teachers**

Supervision of classroom instruction including behavior management, using a variety of theories and models including developmental and clinical supervision. Planning and implementing staff development programs, procedures of documenting classroom teacher performance, and techniques of improving achievement of all students. Prerequisites or corequisites: EADM 601 and 603, or consent of program coordinator. (4 units)

#### **613. School Personnel Management**

Recruitment, selection and evaluation of personnel at all levels of employment, including progressive assistance, conflict management, and file building. Laws and policy development in relationship to school district and collective bargaining. Prerequisites or corequisites: EADM 601 and 603 and admission to the Educational Administration program. (4 units)

#### **617. Cultural and Political Experiences**

Cultural and political experiences in diverse communities. Additional hours entailed. Prerequisites or corequisites: EADM 601, 603 and 607 or consent of program coordinator. (1 unit)

#### **619. Policy, Governance and Legal Aspects of Education**

Current laws and court decisions affecting public education with special emphasis on the laws of the State of California. Prerequisites or corequisites: EADM 601 and 603. (4 units)

#### **620. Practicum in Educational Administration**

Practicum for the Preliminary Administrative Services Credential is designed to fulfill the experiences required in the student's induction plan. Student must receive approval of the Practicum Application Form and documentation of completion of an entry level administrative experience selected in consultation with instructor and district mentor. Ninety hours of experience is required. Prerequisites or corequisites: EADM 601 and admission to Preliminary Administrative Services Credential or consent of program coordinator. (1 unit)

#### **621. Fieldwork in Educational Administration**

Administrative fieldwork at the elementary and the secondary school level, coordinated with the district. Consists of a minimum of 60 hours of administrative fieldwork experience at the elementary and repeated at the secondary level for 2 units and 60 hours at each level for a total of 4 units. Formerly EADM 628.

- A. I. Prerequisites: EADM 601, 603, 610, 620, advancement to candidacy and permission of the program coordinator. (2 units)
- B. II. Prerequisite: EADM 601, 617, 621A and 622. (2 units)

#### **622. Curriculum, Instruction and Assessment**

Examines the California and national accountability systems and their impact on curriculum and instruction for both the school district and school site. Includes issues of norm and criteria referenced testing, the role of California state content standards in defining curriculum, instruction and assessment, and how diversity issues relate to accountability, curriculum, and instruction. Practice in use of technology for assessment and instructional decision making. Prerequisites or corequisites: EADM 601 and 603 or consent of program coordinator. (4 units)

**625. School Finance and Business Management**

Economics of school finances; evolution of the California School Finance Programs; fiscal relationship to county, state and federal agencies; school budget procedures; school accounting; financial management of categorical and special education funds; and the planning, financing, and management of school facilities. Formerly EADM 624. Prerequisites or corequisites: EADM 601 and 603 and admission to the Educational Administration program. (4 units)

**627. Portfolio Evaluation**

The university faculty, field supervisors, student and knowledgeable school district personnel will assist the student in the preparation of a summative review and evaluation of candidate's growth in the program utilizing multiple assessment measures tied to the coursework and field experiences. The review is designed to assess the student's ability to perform the responsibilities of an entry-level school administrator and will include a plan for continued growth of leadership and management skills. Formerly EADM 636. Prerequisites or corequisites: EADM 601, 603, 607, 610, 617, 619, 620, 621A, 621B, and 624; advancement to candidacy and permission of program coordinator. (2 units)

**630. Internship Fieldwork in Educational Administration**

Field experiences for students enrolled in the Preliminary Administrative Services Credential Program, Internship Option.

- A. Formerly EADM 630. Prerequisite: consent of program coordinator. (2 units)
- B. May be repeated up to a maximum of 10 units. Prerequisites: EADM 630A and consent of program coordinator. (2 units)

**660. Advanced Field Studies: Assessment**

The student, university faculty, and selected district personnel will complete a comprehensive assessment of the candidates utilizing multiple assessment measures and develop a plan for addressing identified needs and continued personal growth. This course is a requisite for or can be taken concurrently with EADM 664, 667, 670, 672, 675, and 678. Prerequisites: admission to Professional Administrative Services Credential program and permission of the program coordinator. (3 units)

**664. Principles of Leadership, Organizational Theory and Decision Making**

Seminar in principles of leadership and organizational theory including a review of leadership styles, a variety of management strategies and human relations skills, dynamics of team building, and effective decision-making are also studied. Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator. (3 units)

**667. Instructional Leadership for Program Development and Evaluation**

Seminar in practical and theoretical issues related to leadership, including effective schools, teacher supervision and evaluation, staff development, instructional management and support, quality control, and computer technology needs of the administrator. These topics provide an opportunity for reflection and discussion on instructional leadership as it relates to program components and development, program evaluation, and evaluation designs and implementation. Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator. (3 units)

**670. School Law**

Seminar on the impact of education law upon the educational administrator and how it can facilitate school leadership, including the study of judicial structure and dynamics of law cases and interpretations on administrative settings. Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator. (3 units)

**672. Human Resources Management**

Seminar in the theory and function of personnel administration as it relates to instructional leadership in schools. School personnel law is reviewed and applied to understanding of political relationships. Fiscal management of personnel resources as related to strategic planning. Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator. (3 units)

**675. School Business and Facility Management**

Seminar on trends and issues in school finance with emphasis on current and innovative procedures including development of a site-based budget; fiscal issues, attendance and student activity accounting; strategic planning; and the planning and utilization of school facilities. Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator. (3 units)

**678. Social and Political Issues in Education**

Seminar on the political forces that propel public education at the local, state, and national levels, and the social issues that impact the operation of schools and school districts. Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator. (3 units)

**680. Advanced Field Studies: Evaluation**

Exit fieldwork structured to provide the student with an evaluation by university faculty and selected district personnel of progress on the initial program assessment plan and development of a plan for continued growth as an effective school leader. Prerequisites: admission to Professional Administrative Services Credential program, EADM 660, 664, 667, 670, 672, 675 and 678 or permission of program coordinator. (3 units)

**681. Vision and Learning**

Development, articulation, implementation, and stewardship of a vision of learning that is shared and supported by the school community for current administrators. Prerequisite: admission to the Administrative Services Professional Credential program or consent of program coordinator. (3 units)

**682. Culture for Student Learning and Professional Growth**

Developing and sustaining a school culture and instructional program conducive to student learning and staff professional growth to nurture current administrators. Prerequisite: admission to the Administrative Services Professional Credential program or consent of program coordinator. Prerequisite: EADM 681. (3 units)

**683. Organization and Resource Management**

Management of the organization, operations and resources for a safe efficient and effective learning environment for current administrators. Prerequisite: admission to the Administrative Services Professional Credential program or consent of program coordinator. (3 units)



**684. Collaboration with Diverse Families and Communities**

Collaboration with diverse families and community members, responding to community interests and needs, and mobilizing community resources for current administrators. Prerequisite or corequisite: EADM 683. Prerequisite: admission to the Administrative Services Professional Credential program or consent of program coordinator. (3 units)

**685. Leadership Capacity and Ethics**

Development of professional leadership capacity in decision-making, problem solving, change management, planning, conflict management, evaluation, and ethics for current administrators. Prerequisite: admission to the Administrative Services Professional Credential program or consent of program coordinator. (3 units)

**686. Factors of School Context**

Understanding, responding to, and influencing the political, social, economic, legal and cultural context of schools for current administrators. Prerequisite: admission to the Administrative Services Professional Credential program or consent of program coordinator. Prerequisite or corequisite: EADM 685. (3 units)

**692. Comprehensive Evaluation in Educational Administration**

Review and preparation for the written comprehensive examination. Prerequisites EADM 601, 603, 607, 610, 613, 617, 620, 621A and 621B (or 630), 622, and 625. Prerequisite or corequisite: EADM 627; advancement to candidacy and permission of program coordinator. Corequisite: EADM 999. (4 units)

**699. Master's Thesis in Educational Administration**

Independent graduate research conducted under the direction of two program faculty members. Prerequisites: advancement to candidacy, EADM 601, 602, 607, 610, 619, 621A, 621B, 622, and permission of program coordinator. (4 units)

**999. Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing. (0 units)

**Doctoral-level courses****730. Politics, Legislative Action and Educational Change**

Processes governing the development of educational policy, including significant laws, legal principles, recent litigation, board relationships and labor management relations. Focuses on connections between legislative and judicial action and the social, political and economic forces affecting education. Covers the interactions and relationships between public and charter schools. Prerequisites: admission to the Ed.D. program; COMM 522; and PA 662 or MGMT 641. (4 units)

**732. Fiscal Planning and Facilities Management**

Methods of financing public education. Identifies budgeting and accounting techniques used by school districts in support of the instructional process and considers legal requirements and public reactions to the financing of education and resource allocation to achieve student outcomes. Explores facilities issues. Four hours lecture and two hours practicum. Prerequisites: admission to the Ed.D. program; COMM 522; and PA 662 or MGMT 641. (5 units)

**734. Advanced Human Resource Management**

Examines issues of conflict/resolution, legal issues, harassment, affirmative action, labor relations, state and federal laws, staffing, staff development, training, collective bargaining, team building and coaching. Four hours lecture and two hours practicum. Prerequisites: EADM 730 and 732. (5 units)

**736. Instructional Leadership and Learning Strategies**

Covers standards, curriculum, instructional strategies, supervision, trends, and innovations. Prerequisites: EADM 730 and 732. (4 units)

**738. Assessment and Evaluation**

Assessment and evaluation of student learning, tests and measurements, measurement theory and using data for improvement. Four hours lecture and two hours practicum. Prerequisites: EADM 734 and 736. (5 units)

**760. Foundations and Introduction to Community College**

Examines the evolution and mission of community colleges in California. Covers the history of community colleges, the Master Plan, the fiduciary duties, the history of curriculum and the relationship of community colleges to P-12 and higher education. Prerequisites: admission to the Ed.D. program; COMM 522; and PA 662 or MGMT 641. (4 units)

**762. Trends and Issues in Community Colleges**

Examines assessment, accountability, changing demographics, community outreach, legal issues, curricular issues, and transfer/articulation issues. Emphasizes trends and issues, past and present. Prerequisites: admission to the Ed.D. program; COMM 522; and PA 662 or MGMT 641. (4 units)

**764. Instructional Methodologies and Strategies in Community Colleges**

Explores the socio-cultural context of education in community colleges and the diversity of learners. Examines the use of instructional strategies that integrate technology to support student success. Discusses current theories of teaching, learning, and assessing adults. Four hours lecture and two hours practicum. Prerequisites: EADM 760 and 762. (5 units)

**766. Community College Finances and Fiscal Resources**

Examines external funding sources, grant writing, full-time faculty and adjunct-faculty issues, facilities, FTEs/enrollment management, human resource implications, salary schedules, state and federal laws, harassment policies, Average Daily Attendance (ADA) and diversity. Four hours lecture and two hours practicum. Prerequisites: EADM 760 and 762. (5 units)

**768. Community College Leadership, Governance, Policy and Politics**

Examines administrator and board relationships, administrator and faculty relationships, school and community relationships, bargaining unit, labor management relations, conflict mediation and conflict resolution. Four hours lecture and two hours practicum. Prerequisites: EADM 764 and 766. (5 units)

# EDUCATIONAL LEADERSHIP

## Doctor of Education in Educational Leadership

### Office of Doctoral Studies

College of Education Building, Room 364

(909) 537-5651 <http://edd.csusb.edu>

**NOTE: Room numbers effective Fall 2008, check Summer  
Schedule of Classes for current locations**

**DIRECTOR:** Deborah Stine

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## DOCTOR OF EDUCATION IN EDUCATIONAL LEADERSHIP

### Requirements (92 units)

The doctoral program in Educational Leadership is a rigorous, research-based program which prepares PreK-12 and Community College leaders who can apply their knowledge base with the critical skills of analysis, inquiry, research and evaluation to contribute to the study, development, and implementation of educational reforms.

### Admission to the Program

The Executive Board, with recommendations from the Admissions Committee will oversee the specific admissions processes for the program, review candidate applications and make admissions decisions. The graduate admissions standards of the university shall apply to all Ed.D. candidates.

The Ed.D. program requires the following of applicants for admission to the doctoral program:

1. A completed application;
2. An earned baccalaureate degree and master's degree from an accredited institution of higher education with a cumulative grade point average of 3.0 or higher in upper division and graduate study combined;
3. Official transcripts from each college or university attended since high school graduation (no exceptions);
4. Submission of Graduate Record Examination (GRE) scores from three sections of the General Test taken within the last five years with a recommended total score of 1000 or higher;
5. Three letters of recommendation from professionals in the field attesting to the leadership ability and scholarship potential of the candidate; included shall be one letter from a school site or university administrator and at least one letter from a university faculty member preferably with a doctoral degree that addresses the applicant's potential for academic success in a doctoral program. Letters must be sent directly to the Office of Doctoral Studies.
6. A written statement of purpose reflecting an understanding of the challenges facing the public schools or community colleges/institutions of higher education in California;
7. A written detailed plan indicating his/her plan for meeting the demands of the program and his/her professional responsibilities.
8. Sufficient preparation and experience to benefit from the program;
9. Demonstrated educational leadership potential and skills including successful experience in school, postsecondary, community, and/or policy leadership;
10. Demonstrated academic excellence, problem-solving ability, technology proficiency, and interest in critically assessing and bringing about improvements to current educational policies and practices; and
11. A personal interview.

### Requirements for Graduation

1. Students must maintain a 3.0 GPA to be in good standing;
2. Students may not have a grade point average below 3.0 in two successive quarters;
3. Students must meet all of the requirements of graduate students outlined on Page 350.

### Examinations

The Ed.D. Program includes three major written examinations and three oral examinations, passage of which is required for student progression to program completion and degree conferral

#### 1. Qualifying Examinations.

The qualifying examination includes a rigorous written assessment of student knowledge in the form of a scholarly paper and an oral defense of this scholarly paper that must be successfully passed prior to the student's advancement to candidacy.

#### 2. Written and Oral Qualifying Examinations.

The qualifying examinations are administered at a time in the program sequence when the candidate's mastery of the majority of the core leadership and methodological elements can be fairly evaluated and when the candidate is ready to begin his/her dissertation research.

The purposes of written examination and oral defense are to provide opportunities for students to (a) reflect on and synthesize the knowledge they have gained during their course work, (b) write a scholarly, annotated bibliography, (c) answer a question in the form of a scholarly paper (this paper will be the foundation of the student's literature review for the dissertation), (d) orally defend their response to the question and (e) bridge the transition from coursework to the actual writing of the dissertation.

#### 3. Dissertation Proposal and Dissertation Final

##### Examination (Written)

The dissertation research will focus on a significant professional problem or issue and will have the potential to contribute, generally or in the context of a particular educational institution, to the improvement of public PreK-12 or community college education. Work in support of the dissertation is embedded throughout the Ed.D. curriculum. However, formal dissertation research is subject to (a) passage of the dissertation proposal examination which constitutes formal approval for the candidate to proceed with the dissertation research as proposed and (b) approval of human subjects by the Institutional Review Board. The dissertation must demonstrate a strong scholarly and professional foundation of knowledge on the part of the candidate and must demonstrate the candidate's ability to apply this knowledge to rigorous study of PreK-12 or community college education.

The student must submit his/her dissertation proposal for approval following the procedures and format established by the campus program faculty. The dissertation proposal will contain, at a minimum, a description of the problem, a review of the relevant literature, a statement of the research question, and a description of the research methodology. The proposal must contain either (a) materials that have already been submitted to the Institutional Review Board regarding the proposed dissertation research or (b) materials completed for submission to the Institutional Review Board to meet human subjects requirements.

The dissertation proposal examination is ordinarily conducted by a three member committee that includes (a) two tenured or tenure-track members of the Ed.D. program faculty and (b) one member from the affiliated core faculty. The committee reviews the dissertation proposal and communicates formally in writing to the student its (a) approval, (b) approval with modifications, or (c) lack of approval. In the case of approval with modifications or

lack of approval, the committee will communicate to the student in writing the process and expectations for resubmission. If the student is required to resubmit the proposal, the committee will review the revised proposal and communicate the outcome to the student in writing. The student must receive written approval of the proposal by the committee and written notification by the Institutional Review Board that human subjects review requirements have been met in order to proceed with the formal conduct of the dissertation research.

The dissertation is the written product of the research undertaken in accordance with the approved proposal. The dissertation will state the research problem and question(s), describe the primary theoretical perspectives of the research, identify the major assumptions, explain the significance of the undertaking and relate it to the relevant scholarly and professional literature, describe the research methods, the sources for and methods of gathering data, the approaches used for analyzing the data, the findings based on the analysis of the data, and the conclusions or recommendations. The dissertation will reflect original analysis and independent, critical thought.

#### **Final Examination (Oral)**

The student is required to present the proposal orally to the committee and respond to committee members' questions about the proposal. The proposal defense must be completed prior to the end of the first quarter (fall quarter) in Year III of the program. This examination will be administered by the dissertation committee. Unanimous agreement of the dissertation committee is required for approval of the dissertation and recommendation that the Ed.D. degree be conferred. In the event that the dissertation committee requires substantive changes to the dissertation, the final vote of the committee will be postponed until the changes are completed.

Submission of the approved dissertation is the last step in the program leading to the awarding of the Ed.D. degree. The dissertation must be submitted by the specified deadline. The dissertation format must conform to CSUSB's approved dissertation manuscript requirements as outlined in the Student Handbook. The final copy of the dissertation must be approved by the dissertation committee and the Office of Graduate Studies.

### **Degree Requirements (92 units)**

1. EDUC 700. Scientific Inquiry (4)
2. EDUC 705. Organization and Administration of School Systems/Community Colleges (4)
3. EDUC 707. Quantitative Methods (4)
4. EDUC 709. Diversity and Equity in Educational Administration: School Districts and Community Colleges (4)
5. EDUC 712. Qualitative Methods (4)
6. EDUC 714. Educational Systems as Cultural and Social Systems (4)
7. EDUC 716. Leading and Motivating Adults (5)
8. EDUC 718. Strategic Planning, Accountability and Change (5)
9. Four units chosen from:
  - EDUC 720. Advanced Quantitative Research Methods (4)
  - EDUC 722. Advanced Qualitative Research Methods (4)
10. EDUC 726. Ethical Leadership and Decision-Making in Education (4)
11. COMM 522. Mediation Theory and Practice (4)
12. Four units chosen from:
  - PA 662. Human Resource Management in the Public Sector (4)
  - MGMT 641. Managing Human Resources (4)

#### **Specialization (23 units)**

Students must take all courses within one of the following specializations:

##### **P-12 Specialization (23 units)**

- EADM 730. Politics, Legislative Action and Educational Change (4)
- EADM 732. Fiscal Planning and Facilities Management (5)
- EADM 734. Advanced Human Resource Management (5)
- EADM 736. Instructional Leadership and Learning Strategies (4)
- EADM 738. Assessment and Evaluation (5)

##### **Community College Specialization (23 units)**

- EADM 760. Foundations and Introduction to Community College (4)
- EADM 762. Trends and Issues in Community Colleges (4)
- EADM 764. Instructional Methodologies and Strategies in the Community College (5)
- EADM 766. Community College Finances and Fiscal Resources (5)
- EADM 768. Community College Leadership, Governance, Policy and Politics (5)

#### **Dissertation (19 units)**

1. EDUC 790. Research Seminar (1) for a total of (3)
2. EDUC 799. Dissertation (2-6 units) for a total of (16)

**See Page 422 for EDUC course descriptions and Page 440 for EADM course descriptions.**

# ENGLISH

## Master of Arts in English Composition

with concentrations in:  
English Composition  
English Literature  
Teaching English as a Second Language

### Department of English

University Hall, Room 334  
(909) 537-5824 <http://english.csusb.edu>

**FACULTY:** Jennifer Andersen, Mary Boland, James Brown, David Carlson, Rong Chen (Chair), Milton Clark, Kimberly Costino, Cynthia Cotter, Juan Delgado, Margaret Doane, Parastou Feiz, Brenda Glascott, Ellen Gil-Gomez, Bruce Golden (Emeritus), Carol Haviland, Holly Henry, Sunny Hyon, Sandra Kamusikiri, David Marshall, Susan Meisenhelder (Emeritus), Kevin Moffatt, Julie Paegle, E. Philip Page (Emeritus), Renee Pigeon, Helen Pilinovsky, Luz Elena Ramirez, Jacqueline Rhodes, Treadwell (Ted) Ruml II, DeShea Rushing, Joe Sanders, Peter Schroeder (Emeritus), Wendy Smith, Caroline Vickers, Salaam Yousif

## MASTER OF ARTS IN ENGLISH COMPOSITION

### Requirements (48 units)

The Master of Arts in English Composition is designed for students interested in pursuing studies in the fields of composition, literature and linguistics. The concentration in English Composition focuses on writing—how written texts work rhetorically and stylistically; how historical and social conditions affect what we write and how we construct meaning as we read; and how to teach people to write effectively. The literature concentration allows students an option to focus on advanced studies in literature as well as composition. The concentration in TESL emphasizes the application of current linguistic theories to ESL pedagogy and familiarizes students with a wide range of teaching approaches and methods.

The program is firmly grounded in theory and research, with a strong emphasis on pedagogy. The internship component gives students practical classroom experience. Students also have opportunities to tutor in the Writing Center and to work as teaching assistants. In addition to teaching, graduates may go on to Ph.D. and M.F.A. programs as well as careers involving writing, editing, and researching.

The Graduate Committee, under the leadership of the coordinator, has general supervision of the program and the work of students, including approval of thesis proposals. Students are required to consult regularly with the Graduate Coordinator for advising. Petitions for waiver of requirements must be approved by the Graduate Coordinator and the Dean of Graduate Studies when appropriate.

### Admission to the Program

To apply for admission to the English Composition Program, applicants must have all their transcripts forwarded to the Office of Admissions and Student Recruitment, along with the Post-Baccalaureate Graduate Application form. In addition, applicants should send their statement of purpose and writing sample as well as letters of recommendation to the English Department Graduate Coordinator.

The Graduate Committee cannot act on applications until they have been reviewed by the Office of Admissions and Student Recruitment and have met university admissions requirements. The following schedule of dates has been established for Graduate Committee decisions.

To begin the quarter of:	Application and other materials must be received by:	For decision call English Dept. after:
Fall 2008	Aug. 1, 2008	Aug. 15, 2008
Winter 2009	Nov. 1, 2008	Dec. 1, 2008
Spring 2009	Feb. 1, 2009	Mar. 1, 2009
Fall 2009	Aug. 1, 2009	Aug. 15, 2009

A student who meets all entrance requirements except one or more course prerequisites or the minimum grade requirements may be admitted to the program as a conditionally classified graduate student. Conditionally classified students must fulfill certain conditions (such as taking or retaking prerequisite courses) within a specified period of time. Prerequisite courses cannot be counted toward the units required for the master's degree.

The specific requirements for admission as a classified graduate student in the English Department are:

1. A grade point average of 3.0 ("B") in all undergraduate upper-division courses;
2. Applicants who do not possess a bachelor's degree from a post-secondary institution in a country where English is the principal language of instruction must receive a minimum score of 575 (computer-based score of 233) on the Test of English as a Foreign Language (TOEFL);
3. Three letters of recommendation supporting the student's application. Letters should be from people able to make relevant comments on the student's likely success in English Composition with a Concentration in Composition, English Literature, or Teaching English as a Second Language, and on the student's competence in speaking and writing English;
4. A one-page, typed statement of purpose briefly explaining the student's reasons (i.e. career objectives and research interests) for pursuing a graduate degree in English Composition with a Concentration in Composition, English Literature, or Teaching English as a Second Language;
5. One writing sample (5-10 pages) that reflects the student's ability to write in edited English a balanced, well-reasoned argument or a clear, coherent presentation of information, such as a college term paper or a work-related report;
6. Fulfillment of the graduate entrance writing requirement by passing, with a "B" (3.0) or better, ENG 306 (or an equivalent course) or the Writing Requirement Equivalency Exam (WREE), within seven years prior to acceptance into the program. Students who do not satisfy this requirement may be conditionally classified and required to take or repeat the course or exam;
7. The following undergraduate courses or their equivalent with a minimum grade of "B" in each, taken in conjunction with a major in English or some other major:
  - A. For the Concentrations in English Composition and English Literature:
    1. ENG 311. The English Language
    2. One of the following:
 

ENG 312.	Theories of Language Acquisition and Learning
ENG 420.	English Grammar I
ENG 422.	History of the English Language
    3. One of the following:
 

ENG 301A.	Analysis of Poetry
ENG 301B.	Analysis and Writing of Poetry
ENG 302A.	Analysis of Drama
ENG 302B.	Analysis and Writing of Drama
ENG 303A.	Analysis of Prose Fiction
ENG 303B.	Analysis and Writing of Prose Fiction
ENG 304A.	Analysis of Nonfiction Prose
ENG 304B.	Analysis and Writing of Nonfiction Prose
    4. ENG 385. Literary Theory and Criticism



5. One upper-division course in British literature.
  6. One upper-division course in American literature.
  7. One upper-division course in ethnic literature, literature of diversity, or literature by women.
- B. For the Concentration in Teaching English as a Second Language (TESL):
1. ENG 311. The English Language
  2. ENG 312. Theories of Language Acquisition and Learning
  3. ENG 420. English Grammar I

### Advancement to Candidacy

To be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Completed at least 16 units of coursework required by the program with a grade point average of at least 3.0 ("B");
3. Filed a program plan approved by the Graduate Coordinator.

### Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate-level work in the formal program, with no fewer than 35 completed at this university and with at least 34 units gained from 600-level courses in English. Students must gain approval in advance from the Graduate Coordinator to count 300-, 400- or 500-level courses as electives;
  2. Advancement to candidacy;
  3. A grade point average of at least 3.0 ("B") in all graduate course work and research fulfilling the requirements of the student's concentration and grades of "C" (2.0) or better in all courses in the program;
  4. For students in the English Composition Concentration and English Literature Concentration, demonstrated minimal competence in a language other than English at the level of a foreign language 150 course given by the Department of World Languages and Literatures. Can be fulfilled by *one of the following*, but note that courses taken to fulfill the language requirement cannot be applied toward any graduate degree unit requirements:
    - A. One year of college course work (with a grade of A, B, C, or CR) studying a language other than English,
    - B. Passage of a language competency exam in a language other than English at a level of Intermediate (ACTFL Stage 2) or above or equivalent,
    - C. Four units of college course work (with a grade of A, B, C, or CR) studying a language other than English plus four units of course work in language acquisition, such as ENG 312;
  5. For students in the Teaching English as a Second Language Concentration, demonstrated competence in a language other than English. Can be fulfilled by one of the following:
    - A. One year of college work (with a grade of A, B, C or CR) studying a language other than English,
    - B. Passage of a language competency exam in a language at a level of Intermediate (ACTFL Stage 2) or above or equivalent;
  6. The graduation writing requirement is met upon successful completion of the thesis or comprehensive examination;
  7. The program must be completed within a seven-year period. No more than seven years may elapse between the time of registration for the earliest course listed on the program and the completion of all requirements for the degree. Students who have taken any required or elective course that expires because it exceeds this seven-year limitation will be required to retake the course or its equivalent as designated by the Graduate Coordinator, regardless of the grade originally earned. Petitions to waive this requirement will not be approved.
- Note:** Students interested in pursuing dual concentrations should contact the Graduate Coordinator about dual concentration requirements.

### Degree Requirements (48 units)

#### English Composition Concentration (48 units)

Before enrolling in courses, students should consult the course descriptions for course prerequisites.

1. ENG 600. Critical Approaches to Literature (4)
2. ENG 609. Perspectives on Research (4)
3. ENG 611. The Western Rhetorical Tradition (4)
4. ENG 612. Contemporary Composition and Discourse Theory (4)
5. ENG 613. Seminar in Rhetoric and Composition (4)
6. Four units chosen from:
  - ENG 615. Discourse Analysis: Theories and Applications (4)
  - ENG 616. Contrastive Rhetoric (4)
  - ENG 617. Linguistic Pragmatics (4)
  - ENG 618. Stylistics (4)
7. Twelve units chosen from:
  - ENG 530. Issues in Tutoring Writing (4)
  - ENG 621. Approaches to Imaginative Writing (4)
  - ENG 626. TESL Methods and Materials for Reading and Writing (4)
  - ENG 657. Sites of Praxis (4)
  - ENG 658. Computers and Writing: Literacy and Technology (4)
  - ENG 660. Issues in Teaching College Composition (4)
8. ENG 662. Internship in Composition (2)
9. ENG 695. Thesis Proposal/Comprehensive Examination Preparation (2)
10. Electives (4-8 units)
 

Students who are completing the Thesis Option under Culminating Experience below must take four units of electives; students completing the Comprehensive Examination option must take eight units of electives. Electives must be approved in advance by the Graduate Coordinator.
11. Culminating Experience
 

Choose one of the following two options:

**Thesis Option (4 units)**

  1. ENG 699A. Thesis (2)
  2. ENG 699B. Thesis and Research (2)

**Comprehensive Examination Option (0 units)**

  1. ENG 999. Comprehensive Examination (0)

#### English Literature Concentration (48 units)

Before enrolling in courses, students should consult the course descriptions for course prerequisites.

1. ENG 600. Critical Approaches to Literature (4)
2. ENG 609. Perspectives on Research (4)
3. ENG 611. The Western Rhetorical Tradition (4)
4. ENG 612. Contemporary Composition and Discourse Theory (4)
5. Four units chosen from:
  - ENG 615. Discourse Analysis: Theories and Applications (4)
  - ENG 616. Contrastive Rhetoric (4)
  - ENG 617. Linguistic Pragmatics (4)
  - ENG 618. Stylistics (4)
6. ENG 621. Approaches to Imaginative Writing (4)
7. Twelve units chosen from:
  - ENG 601. Seminar in Poetry (4)
  - ENG 602. Seminar in Dramatic Literature for Stage and Film (4)
  - ENG 603. Seminar in Fiction (4)
  - ENG 604. Seminar in Nonfiction Prose (4)
  - ENG 651. Seminar in a Literary Topic (4)
8. ENG 663. Internship in Literature (2)

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9. ENG 695. Thesis Proposal/Comprehensive Examination Preparation (2)
10. Electives (4-8 units)  
Students who are completing the Thesis Option under Culminating Experience below must take four units of electives; students completing the Comprehensive Examination option must take eight units of electives. Electives must be approved in advance by the Graduate Coordinator.
11. Culminating Experience  
Choose one of the following two options:  
**Thesis Option (4 units)**
  1. ENG 699A. Thesis (2)
  2. ENG 699B. Thesis and Research (2)**Comprehensive Examination Option (0 units)**
  1. ENG 999. Comprehensive Examination (0)

**Teaching English as a Second Language (TESL)  
Concentration (48 units)**

If TESL concentration students have completed ENG 523 and 524 with grades of "C" or better in their B.A. degree, they must take eight units of graduate-level English electives, approved in advance by the Graduate Coordinator, in lieu of ENG 523 and 524 in the M.A. program.

Before enrolling in courses, students should consult the course descriptions for course prerequisites.

1. ENG 523. English Grammar II (4)
2. ENG 524. Sociolinguistics (4)
3. ENG 609. Perspectives on Research (4)
4. Four units chosen from:  
ENG 611. The Western Rhetorical Tradition (4)  
ENG 612. Contemporary Composition and Discourse Theory (4)
5. ENG 615. Discourse Analysis: Theories and Applications (4)
6. Four units chosen from:  
ENG 616. Contrastive Rhetoric (4)  
ENG 617. Linguistic Pragmatics (4)
7. ENG 619. Second Language Acquisition (4)
8. ENG 626. TESL Methods and Materials for Reading and Writing (4)
9. Four units chosen from:  
ENG 530. Issues in Tutoring Writing (4)  
ENG 657. Sites of Praxis (4)  
ENG 658. Computers and Writing: Literacy and Technology (4)  
ENG 660. Issues in Teaching College Composition (4)
10. ENG 664. Internship in ESL Teaching (2)
11. ENG 695. Thesis Proposal/Comprehensive Examination Preparation (2)
12. Electives (4-8 units)  
Students who are completing the Thesis Option under Culminating Experience below must take four units of electives; students completing the Comprehensive Examination option must take eight units of electives. Electives must be approved in advance by the Graduate Coordinator.
13. Culminating Experience  
Choose one of the following two options:  
**Thesis Option (4 units)**
  1. ENG 699A. Thesis (2)
  2. ENG 699B. Thesis and Research (2)**Comprehensive Examination Option (0 units)**
  1. ENG 999. Comprehensive Examination (0)

**Culminating Experience**

Students select either the Thesis Option or the Comprehensive Examination Option. Successful completion of either option satisfies the graduation writing requirement.

**Thesis Option**

Students electing the Thesis Option are required to write a thesis in either English composition and rhetoric, literature, linguistics, applied linguistics or teaching English as a second language. Students develop an acceptable thesis project and prepare a thesis proposal in accordance with program guidelines, consisting of a 1000-word proposal and an annotated bibliography. Those pursuing a dual concentration must devise a thesis project relevant to both concentrations. To develop a thesis proposal and obtain approval of it, students carry out the following steps:

1. Complete ENG 695 with a grade of CR;
2. Gain the support of a committee of two or three English Department faculty members (the thesis reading committee);
3. Submit the Thesis Proposal and annotated bibliography to the full graduate committee (8-10 members) and carry out any revisions requested to achieve its approval.

Students then write the thesis, a culminating independent project that demonstrates mastery of both the subject matter and the written discourse of the discipline. Completed thesis manuscripts must be formatted in accordance with the guidelines established by the Graduate Studies Office and approved by the thesis reading committee and either the graduate coordinator, associate graduate coordinator, or department chair, and the Dean of Graduate Studies.

**Note:** To undertake the Thesis Option, a student must have a minimum GPA of 3.7 overall in degree-applicable courses or the permission of the graduate coordinator.

**Comprehensive Examination Option**

Students electing the Comprehensive Examination Option must take the examination no earlier than in the last quarter of program coursework, and after successful completion (with a grade of CR) of ENG 695.

Students must declare their intent to take the examination at least one quarter in advance and register for ENG 999. The comprehensive examination is offered twice yearly, in fall and spring quarters.

The reading committees for the comprehensive examination in each concentration will be established annually by the graduate program, and will consist of two English Department faculty members and the graduate coordinator or associate coordinator responsible for each concentration.

The comprehensive examination addresses both the program's core curriculum and the student's concentration. The examination will be graded pass/fail. No student will be permitted to take the comprehensive examination more than twice. Candidates who re-take the examination must do so within one calendar year.

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**COURSE OFFERINGS IN  
ENGLISH (ENG)**

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**Upper Division****507. Advanced Creative Writing: Poetry**

Advanced-level workshop in poetry writing; discussion of student writing and exemplary texts by established poets. Formerly a topic under ENG 513. Prerequisite: ENG 417 or consent of instructor. (4 units)

**508. Advanced Creative Writing: Fiction**

Advanced-level workshop in fiction writing; discussion of student writing and exemplary texts by established fiction writers. Formerly a topic under ENG 513. Prerequisite: ENG 418 or consent of instructor. (4 units)

**510. English in the Secondary Classroom**

English as a secondary school subject including language, literature and composition. Special emphasis on problems of improving and assessing student writing. Prerequisites: ENG 306, 311 and at least two courses from ENG 301, 302, 303, 304. (4 units)

**511. Creative Writing in the Classroom**

Advanced methods for teaching the techniques of creative writing, focusing primarily on poetry and fiction. Intended for future elementary and secondary teachers. Requires a minimum six-hour field component. Prerequisite: ENG 317 or 318. (4 units)

**513. Advanced Creative Writing in Specialized Genres**

Advanced workshop in writing in a specialized genre, with discussion of student writing and of exemplary works by established writers. May be repeated for credit as subject matter changes. Prerequisite: ENG 417 or 418 or consent of instructor. (4 units)

**515. Senior Seminar in Literature**

Advanced study of a selected literary topic, including consideration of critical theory and methodology. May be repeated for credit as topics change. Prerequisites: senior standing (or junior standing with consent of instructor) and completion of at least two analysis courses (ENG 301, 302, 303, 304), and at least two additional upper-division courses in English. (4 units)

**516. Senior Project**

Preparation and submission of a portfolio of appropriate writing samples as the basis of a reflective essay showing how the portfolio demonstrates accomplishment of essential goals of the major. Graded credit/no credit. Prerequisite: completion of 135 units, including 40 units of the English major. (1 unit)

**517. Honors Project**

Preparation of a piece of graduate-level writing (which may be an expansion of one of the student's papers or other work) to be presented at an honors colloquium. One hour of class meeting a week and required attendance at honor colloquia. Graded credit/no credit. (2 units)

**522. Independent Study in Writing**

Projects in advanced writing: fiction, nonfiction, poetry or drama. A total of eight units may apply to the English major or toward graduation. Prerequisites: ENG 513 and departmental approval; students must be enrolled in the Creative Writing track and the project must be approved by an instructor. (4 units)

**523. English Grammar II**

Advanced study and analysis of grammatical structures of English. Prerequisites: ENG 311 and 420. (4 units)

**524. Sociolinguistics**

An examination of language within social and cultural contexts, including ethnic, social and regional dialect variations in the United States. Prerequisites: ENG 311 and 420. (4 units)

**525. Seminar in Literary Theory and Criticism**

Advanced study in special topics in literary theory and criticism. May be repeated for credit as topics change. (4 units)

**526. English Phonetics and Phonology**

Sounds and sound patterns of spoken English, with special attention to the pronunciation problems encountered by learners of English as a second language. Prerequisite: ENG 311. (4 units)

**530. Issues in Tutoring Writing**

Study of the theory, principles and methods of tutoring students who need specific practice in writing. Those completing this course with a grade of "B" (3.0) or better are eligible to participate in tutorial writing services on campus. Students in this class are expected to be proficient writers. Prerequisites: ENG 101 and consent of instructor. (4 units)

**535. Images of Culture Through Children's Literature**

Becoming acquainted with the children's literature of various cultures and organizing this literature for curricular choices. (Also offered as ERDG 642. Student may not receive credit for both.) Graduate students are required to do coursework appropriate for graduate students. Prerequisite: ERDG 620 for students enrolled in the College of Education; consent of instructor for other students. (4 units)

**542. Literary Publication**

Principles and methods of literary publication. Students function as the literary staff dealing with key aspects of the production process, including helping to select, edit, and proofread poems, short stories, and plays. Two hours lecture and four hours laboratory. ENG 542A and 542B may each be taken once for credit.

- A. Producing print literary journal, *The Pacific Review*, and its web site. (4 units)
- B. Producing on-line literary journal, *Gold Coast Review*. (4 units)

**565. Special Studies in Writing**

Studies in particular topics in writing, such as assessment, learning theory and research on the teaching of writing. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

**566. Special Studies in Writing**

Studies in particular topics in writing such as assessment, learning theory and research on the teaching of writing. May be repeated for credit as topics change. Prerequisite: consent of instructor. (4 units)

**575. Internship in English**

Supervised learning experience applying English-related skills in a work setting. A total of eight units may be applied toward graduation. Generally assumes 30 hours of work/study per unit of credit. Graded credit/no credit. Prerequisites: junior standing with at least 16 units of course work in English on this campus with an overall grade point average of 3.0 or better; consent of instructor; and departmental approval of a contract submitted in advance of the quarter in which the course is to be taken. (2-5 units)

**595. Independent Study in Literature, Composition, or Linguistics**

Independent study of selected themes, figures, and areas in literature, composition, or linguistics. May be repeated for a maximum of eight units of credit toward the B.A. in English and toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (2-5 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**600. Critical Approaches to Literature**

Study and practice of various critical approaches, such as formalism, deconstructionism, feminism, reader response, and new historicism, with particular attention to their assumptions about the meaning and function of literature. Formerly ENG 650. (4 units)

**601. Seminar in Poetry**

Advanced study in particular kinds of poetry, with special focus on generic issues or problems. May be repeated for credit as topics change. Prerequisite: ENG 600 or consent of instructor. (4 units)

**602. Seminar in Dramatic Literature for Stage and Film**

Advanced study in particular kinds of dramatic literature and film, with special focus on generic problems and issues. May be repeated for credit as topics change. (Also offered as TA 602. Students may not receive credit for both.) Prerequisite: ENG 600 or consent of instructor. (4 units)

**603. Seminar in Fiction**

Advanced study in particular kinds of fiction, with special focus on generic issues or problems. May be repeated for credit as topics change. Prerequisite: ENG 600 or consent of instructor. (4 units)

**604. Seminar in Nonfiction Prose**

Advanced study in particular kinds of nonfiction prose with special focus on generic issues or problems. May be repeated for credit as topics change. Prerequisite: ENG 600 or consent of instructor. (4 units)

**605. Special Topics in Language Studies**

Seminar in particular aspects of language studies and their empirical application. May be repeated for credit as topics change. Prerequisites: ENG 311 and 420. (4 units)

**609. Perspectives on Research**

Critical study of research methods and resources in the fields of composition, linguistics and literature. (4 units)

**611. The Western Rhetorical Tradition**

Examination of major texts and movements in the history of rhetoric. (4 units)

**612. Contemporary Composition and Discourse Theory**

Examination of major texts and movements in contemporary composition and discourse theory. (4 units)

**613. Seminar in Rhetoric and Composition**

Advanced study in a specific area of rhetoric and composition theory. May be repeated for credit as topics change. Prerequisite: ENG 612. (4 units)

**615. Discourse Analysis: Theories and Applications**

Study and application of various linguistic approaches to analyzing spoken and written discourse. Prerequisites: ENG 311 and 420; or consent of instructor. (4 units)

**616. Contrastive Rhetoric**

Comparison and contrast of the rhetorical conventions of various genres as they are written in a variety of languages and discourse communities. Prerequisites: ENG 311 and one from ENG 312, 420, 422; or consent of instructor. (4 units)

**617. Linguistic Pragmatics**

Seminar in the study of how language is used in contexts in relation to the speaker's goals and intentions. Application of major theories in the field to the analysis of actual language. Prerequisites: ENG 311 and one from ENG 312, 420, 422; or consent of instructor. (4 units)

**618. Stylistics**

Examination of various linguistic and rhetorical devices which help writers of literary text to convey their messages and to produce intended effects. Prerequisites: ENG 311 and one from ENG 312, 420, 422; or consent of instructor. (4 units)

**619. Second Language Acquisition**

Examination of competing theories and models of second language acquisition in both children and adults with a special focus on interlanguage studies, transfer, and input and interaction. Prerequisites: ENG 311, 312 and 420; or consent of instructor. (4 units)

**621. Approaches to Imaginative Writing**

Traditional and contemporary approaches to imaginative writing; emphasis on means of encouraging different styles and modes of expression. Prerequisite: ENG 612 or consent of instructor. (4 units)

**625. TESL Methods and Materials for Speaking and Listening**

Seminar in theory, methodology, and techniques in the teaching of listening comprehension, pronunciation and norms of conversation and classroom interchange to non-native speakers of English in an academic context. Prerequisites: ENG 311, 312, and 420; or consent of instructor. (4 units)

**626. TESL Methods and Materials for Reading and Writing**

Seminar in theory and methodology of teaching reading (including techniques such as skimming and scanning, identifying contextual clues and audience assumptions), and writing (including genre analysis and the teaching of grammar through writing) to non-native speakers of English in an academic context. Prerequisites: ENG 311 and 420; or consent of instructor. (4 units)

**631. Approaches to Professional Writing**

Emphasis on writing and teaching the techniques of composing professional reports, abstracts, reviews, and of editing technical manuals and preparing articles for professional journals. (4 units)

**651. Seminar in a Literary Topic**

Advanced study in particular topics in literature. May be repeated for credit as topics change. Prerequisite: ENG 600 or consent of instructor. (4 units)

**657. Sites of Praxis**

Study of composition theory, research and pedagogy as practiced in sites such as writing across the curriculum programs, basic writing courses, writing centers, and community college classrooms. Prerequisite: ENG 612 or consent of instructor. (4 units)

**658. Computers and Writing: Literacy and Technology**

Examination and exploration of the ways in which computer technologies can be integrated into composition courses and literacy contexts of the workplace, and how they alter the understanding, acquisition, and teaching of literacy in our society and culture. Prerequisite: ENG 612 or consent of instructor. (4 units)

**660. Issues in Teaching College Composition**

Study of the theories, principles, and methods of teaching first-year composition. Prerequisite: ENG 612. (4 units)



**662. Internship in Composition**

A practical application of composition theory, research, and pedagogy. Supervised teaching in the composition classroom. May be repeated once for credit. Prerequisites: ENG 612; two courses from ENG 530, 621, 626, 657, 658, 660; and approval of the graduate coordinator. (2 units)

**663. Internship in Literature**

Practical experience working with students in an introductory literature course. Includes supervised teaching in the classroom and frequent consultations with the instructor. May be repeated once for credit. Prerequisites: ENG 612 and 650; one course from ENG 601, 602, 603, 604, 651; and approval of the graduate coordinator. (2 units)

**664. Internship in ESL Teaching**

Practical experience working with students in an ESL-designated classroom. Includes supervised teaching in the ESL classroom. May be repeated once for credit. Prerequisites: ENG 619 and 626; one course from ENG 523, 615, 616, 617; and approval of the graduate coordinator. (2 units)

**666. Seminar in Writing**

Studies in particular topics in writing. May be repeated for credit as topics change; a maximum of eight units of credit may be applied to the Master of Arts in English Composition program. Prerequisite: consent of instructor. (2 units)

**695. Thesis Proposal/Comprehensive Examination Preparation**

Preparation of thesis proposal and annotated bibliography, or preparation for comprehensive examination. Graded credit/no credit. Prerequisites: ENG 609, completion of 24 units in the program, and consent of the graduate coordinator. (2 units)

**696. Graduate Independent Study**

Advanced research on a specific topic, figure, or area in literature, composition, or linguistics. May be repeated for a maximum of eight units toward the M.A. in English Composition and graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, and approval of the graduate coordinator. Proposals must be submitted on a standard application filed in advance of the quarter in which the course is to be taken. (2-5 units)

**697. Thesis and Comprehensive Examination Independent Study**

Research for the thesis and comprehensive exam. Cannot be used toward the 48 units in the M.A. in English Composition. Graded credit/no credit. May be repeated. Prerequisites: completion of coursework except for ENG 699A and 699B and approval of graduate coordinator. (4 units)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

**699. Thesis**

Independent graduate research in English composition and rhetoric, literature, linguistics, applied linguistics, or teaching English as a second language, culminating in a written thesis.

- A. Thesis. Prerequisites: graduate committee approval of the thesis proposal, advancement to candidacy, approval of the of graduate coordinator, completion of all other required courses for the M.A. in English Composition, and good academic standing. (2 units)
- B. Thesis and Research. Prerequisites: graduate committee approval of the thesis proposal, advancement to candidacy, approval of the graduate coordinator, completion of all other required courses for the M.A. in English Composition, and good academic standing. (2 units)

**999. Comprehensive Examination**

Assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking, and demonstrate mastery of the subject matter. Students may not enroll in ENG 999 before their last quarter of coursework in the M.A. in English Composition. Graded credit/no credit. Prerequisites: ENG 695; advancement to candidacy, approval of the graduate coordinator, and good academic standing. (0 units)

# ENVIRONMENTAL SCIENCES

## Master of Science

Environmental Sciences

### Department of Chemistry and Biochemistry

Chemical Science Building, Room CS-204  
(909) 537-5318 <http://chem.csusb.edu/>

### Department of Geological Sciences

Biological Science Building, Room 113A  
(909) 537-5336 <http://geology.csusb.edu/>

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## MASTER OF SCIENCE IN ENVIRONMENTAL SCIENCE

### Requirements (45-49 units)

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The Master of Science in Environmental Sciences is designed to provide strong preparation in applied science as well as social, political, and economic aspects needed for critical decision-making for environmental issues. The program includes a core curriculum including an internship, and participation in a basic or applied research project related to the internship. To accommodate working professionals, internships may be completed at their place of business if deemed appropriate by their faculty advisor. The program is designed so that it can potentially be completed in two years and every effort will be made to offer courses at times convenient for working professionals. The required internship program will be offered during the summer between the first and second years and the supervised graduate study in the following quarter. Additional internship courses are included as electives, as a number of local companies have expressed an interest in having interns for extended periods.

Two options are available for the M.S. in Environmental Sciences. These are (1) a final comprehensive examination, or (2) an extended project (student takes at least one extra graduate research course working on the project). At the end of the project a professional-level paper describing the project and its results will be prepared and presented to the student's advisory committee. If appropriate, students will be encouraged to publish their work in a peer-reviewed journal.

### Admission to the Program:

Specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college or university;
2. Completion of an undergraduate major in geology, chemistry or associated fields (e.g., biology or environmental studies with at least 30 quarter units of upper-division course work);
3. One year each of laboratory courses in: general chemistry, organic chemistry and physics;
4. One full-term course in basic calculus or methods in calculus;
5. A cumulative undergraduate grade point average of at least 2.8 in all courses used for credit in the major;
6. Completion of the graduate entrance writing requirement;
7. Submission of scores from the Graduate Record Examination (GRE) to the environmental sciences graduate committee;
8. Submission to the environmental sciences graduate committee of a one-page, typewritten statement of the student's preparation for graduate study, goals in the graduate program, potential area of research and possible advisor (for thesis option) and professional goals following completion of the M.S.;
9. Submission of three letters of recommendation from people who are in a position to make relevant comments on the student's intent and potential for success in the program. At least two of the letters should be from current or former college or university faculty familiar with the student's scholarship and related activities.

Application deadlines for fall, winter and spring quarter admission are May 1, October 1, and January 15, respectively.

### Advancement to Candidacy

To be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Been accepted by a major advisor from the environmental science program;
3. Completed at least 15 quarter units of work applicable to the degree program as a graduate student at this university with the approval of the environmental sciences graduate committee, and with a minimum grade point average of 3.0 ("B");
4. Gained a recommendation for advancement to candidacy from the graduate committee;
5. Submitted a formal program of graduate course work prepared in consultation with and approved by the graduate committee;
6. Gained final approval of the program and of the candidacy itself by the Dean of Graduate Studies.

### Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate level work included in the formal program, with no less than 32 units completed in residence at this University and with at least 24 units gained from 600-level courses approved by the program;
2. Advancement to candidacy for the degree and approval of the specific program of courses;
3. A grade point average of 3.0 ("B") in all graduate course work fulfilling the requirements of the program and grades of "C" (2.0) or better in each course in the program;
4. Completion and presentation of an extended project; or satisfactory completion of the comprehensive examination;
5. The graduation writing requirement is met upon successful completion of the project or the written portion of the comprehensive examination;
6. Any additional general requirements not cited above and listed on Page 350.

### Department Graduate Committee and Major Advisor

The Environmental Sciences Graduate Committee consists of the graduate program coordinator and two or more faculty members. This committee will determine whether students are adequately prepared for graduate study in environmental sciences, and has general supervision over the work of students progressing toward the master's degree.

Each new graduate student should consult with the graduate program coordinator for advice in selection of the appropriate graduate program. All students are responsible for selecting their major advisor and, in turn, must be accepted by the major advisor. The major advisor in consultation with the student will develop a program of specific courses and an acceptable project research proposal based on the student's interests, abilities and preparation. The major advisor will direct the project research and supervise the internship. The program of courses and the project topic, as well as any subsequent modification of these, are subject to approval by the environmental sciences graduate committee and the Dean of Graduate Studies.

Students enrolled in the graduate program wishing to take courses off campus and include them in the degree program must petition the environmental sciences graduate committee for approval, otherwise the course may not be accepted as part of the program. Extension courses at the 1000- to 9999-level are not applicable to the graduate program. 300-level courses, other than those specified as possible electives in the program will be accepted only by written approval of the committee. Courses taken to satisfy quantitative or qualitative deficiencies cannot be applied toward a master's degree. Repeat of courses or the comprehensive examination require approval of the environmental sciences graduate committee and will be granted only for serious and compelling reasons.

**Degree Requirements (45-49 units)**

## Core Courses (37-41 units)

1. GEOL 610. Environmental Geosciences (5)
2. CHEM 610. Advanced Environmental Chemistry (5)
3. Two units chosen from:
  - GEOL 690. Graduate Seminar in Environmental Sciences (2)
  - CHEM 690. Graduate Seminar in Environmental Sciences (2)
4. PA 620. Regulatory Structure, Policies and Process in Water Law (4)
5. GEOG 470. Hydrology and Water Resources (4)
6. HSCI 612. Public Health Statistics (4)
7. Four units chosen from:
  - INFO 309. Information Management (4)
  - INFO 474. Advanced Database Management and Information Assurance (4)
8. A minimum of nine units, including one internship and one graduate study, chosen from:
  - CHEM 575. Internship in Chemistry (4-5)
  - GEOL 575. Internship in Geology (4-5)
  - CHEM 695. Supervised Graduate Study in Chemistry (4-5)
  - GEOL 695. Supervised Graduate Study in Geology (4-5)
9. Choose one of the following courses (0-4 units):
  - Graduate Project or Thesis:**
    - CHEM 699. Graduate Project or Thesis (4)
    - GEOL 699. Graduate Project or Thesis (4)
  - Comprehensive Examination**
    - CHEM 999. Comprehensive Examination (0)
    - GEOL 999. Comprehensive Examination (0)

## Elective Courses (8 units)

1. A minimum of 8 units; at least one course must be graduate level.

**Undergraduate Electives:**

- BIOL 450. Ecology (5)
- BIOL 455. Marine Biology and Ecology (5)
- GEOG 306. Remote Sensing of Environment (4)
- GEOG 308. Advanced Geographic Information Systems (5)
- GEOG 350. Conservation and Natural Resources (4)
- GEOG 402. Geographic Information Systems Applications (5)
- GEOL 375. Groundwater Hydrology (4)
- GEOL 376. Field Methods in Hydrology (4)
- HSCI 380. Toxicology (4)
- MGMT 324. International Environmental Management (4)
- MGMT 459. Work Group Management (4)

**Graduate Electives:**

- CHEM 545. Instrumental Analysis (6)
- CHEM 691. Graduate Independent Study (2-4)
- CHEM 697. Advanced Internship (4)
- GEOG 650. Environmental Issues of Land Management (4)
- GEOL 510. Scientific Issues in Surface and Groundwater Management (4)
- GEOL 620. Digital Mapping and GIS for Scientists (4)
- GEOL 630. Environmental Geochemistry (4)
- GEOL 635. Low-temperature Geochemistry (4)
- GEOL 691. Graduate Independent Study (2-4)
- GEOL 697. Advanced Internship (4)
- HSCI 557. Hazardous Materials Control (4)
- HSCI 558. Management of Water Quality (4)
- HSCI 651. Air Quality Management (4)
- INFO 609. Information Management Systems (4)
- PA 621. Water Resource Agency Management (4)
- PA 622. Politics and Public Relations in Water Resource Management (4)

# GEOGRAPHY

## Department of Geography and Environmental Studies

Social and Behavioral Sciences Building, Room 327J  
(909) 537-5519 <http://geog.csusb.edu/>

The following courses are offered in support of various graduate degree programs offered by the university.

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### COURSE OFFERINGS IN GEOGRAPHY (GEOG)

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#### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

#### 600. Proseminar in Geography

Survey of the concepts and ideas that geographers study, how they approach the study of geographical phenomena, and what methods they employ in their analysis. The seminar will include discussion of the relationships of the discipline to other social science disciplines and the unique contributions geography has made to knowledge in general and in the social sciences. (4 units)

#### 605. Spatial Data Presentation

An integrated study of geographic techniques used in land use planning, including: computer graphics, geographic information systems, and remote sensing. Three hours lecture and two hours laboratory. Materials fee required. (4 units)

#### 610. Military Geography for National Security

Examination of the terrain, climate and other physical geography factors that affect national security. (4 units)

#### 615. Foundations of Planning I

An intensive study of the social and ethical bases of urban planning, and the fundamental skills and understanding needed by urban planners. The course will include an overview of the legal, economic and political bases of urban planning. (4 units)

#### 616. Foundations of Planning II

Standards and issues associated with the development of general planning, zoning ordinances, and land subdivision are examined. (4 units)

#### 617. Planning Within the Local Power Structure

Examination of the interrelationships between local urban power structures and modes of decision-making and planning, with the purpose to explore ways in which the professional urban planner can work effectively. (4 units)

#### 621. Seminar in the Geography of Latin America

A geographic perspective of Latin America, including such topics as population, economic development, environment and foreign relations. (4 units)

#### 650. Environmental Issues of Land Management

Study of multiple-use management of non-urban land by local government. Emphasis will be placed on recreation, mining, and the maintenance of open space, biotic habitat, and air and water quality. The California Environmental Quality Act (CEQA) and related issues will also be addressed. (4 units)

#### 680. Advanced Demographic Analysis

Advanced study of demographic techniques with particular emphasis on those relevant to urban planning. An examination of various data sources is included. (4 units)

#### 695. Planning Colloquium

Discussion of the application of planning techniques in public and private agencies.

- A. Strategic Planning and Project Management (2 units)
- B. Negotiation in Planning (2 units)
- C. Subdivision Review and Site Design (2 units)
- D. Urban Design and Open Space (2 units)
- E. Neighborhood Planning (2 units)
- F. Urban Housing and Community Development (2 units)
- G. Urban Planning Law (2 units)
- H. Urban Transportation Planning (2 units)
- I. Regional Issues of Urban Planning (2 units)

#### 697. Project Proposal Development

A study of research design required in developing a culminating research project proposal including study of research methodologies relevant to the research project. (4 units)

#### 698. Research Project in Urban Planning

Research applying methods of planning. Graded credit/no credit. Prerequisite: GEOG 697. (4 units)



# GEOLOGY

## Department of Geological Sciences

Biological Science Building, Room 113A  
(909) 537-5336 <http://geology.csusb.edu/>

The following courses are offered in support of various graduate degree programs offered by the university.

### COURSE OFFERINGS IN GEOLOGY (GEOL)

#### Upper Division

##### 510. Scientific Issues in Surface and Groundwater Management

Overview of groundwater concepts and issues, including groundwater origins and behavior; response to wells; water chemistry; water quality and contamination; development and management. Emphasis is given to applications and case studies. This course does not satisfy requirements for the B.A. and B.S. degrees in geology. Four hours lecture. (4 units)

##### 575. Internship in Geology

Work experience off and on campus in geologically related work. Supervised by a member of Geological Sciences faculty. May be repeated for credit with department consent. A total of four units may be applied towards graduation. Graded credit/no credit. Prerequisite: consent of instructor. (1-5 units)

##### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

##### 610. Environmental Geosciences

Application of earth science principles to environmental issues. Topics include applications of fundamentals of physical geology to geohazards, engineering geology, surface and groundwater, erosion, and environmental geochemistry. Atmospheric and climate topics will include global change issues. Labs will feature hands-on experience with earth materials, maps, analytical techniques and environmental problem solving. Four hours lecture and three hours laboratory. Prerequisites: GEOG 103, or GEOL 101 or equivalent (5 units)

##### 620. Digital Mapping and GIS for Scientists

Emphasis on real-time field data collection in direct digital form, and manipulation of these data using GIS. Scientific application to environmental problems will be stressed. Two hours lecture and six hours laboratory. Prerequisite: GEOG 202. Recommended: GEOL 301. (4 units)

##### 630. Environmental Geochemistry

Contemporary problems in environmental geochemistry, such as fate and transport of inorganic and organic pollutants in the terrestrial environment covering both equilibrium and kinetic descriptions of the processes. Prerequisite: GEOL 610. (4 units)

##### 635. Low-temperature Geochemistry

Low-temperature geochemistry including sedimentary systems, weathering, and aqueous geochemistry. Includes discussion of thermodynamics of aqueous reactions, elemental speciation, activity diagrams, the carbonate system, water-rock reactions and stable isotopes. Two hours lecture and six hours laboratory. Prerequisite: GEOL 610. (4 units)

##### 690. Graduate Seminar in Environmental Sciences

Selected topics and reviews of current investigations in the fields of environmental geology. (2 units)

##### 691. Graduate Independent Study

Independent study of an advanced topic in geology or environmental science. Prerequisite: classified standing in master's program and consent of instructor. (2-4 units)

##### 695. Supervised Graduate Study in Geology

Original individual research in environmental geology; to be conducted under the direct supervision of a faculty member of the student's committee, and if desired in collaboration with other members of the student's master's committee. Prerequisites: classified standing in master's program and consent of advisor. (4-5 units)

##### 697. Advanced Internship

Supervised work or study in private or public organizations. May be repeated for credit with consent of Environmental Science Graduate Committee. Prerequisites: CHEM 575 or GEOL 575 and consent of advisor. (4 units)

##### 698. Continuous Enrollment for Graduate Candidacy Standing

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

##### 699. Graduate Project or Thesis

Independent graduate project or research under guidance of the major advisor culminating in a written project or thesis in satisfaction of the extended project option of the degree requirements. Prerequisite: CHEM 695 or GEOL 695. (4 units)

##### 999. Comprehensive Examination

Assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and good academic standing. (0 units)

# HEALTH SCIENCE

## Master of Science in Health Services Administration

## Master of Arts

Health Education Option in Education  
(Degree requirements can be found on Page 391.)

## Department of Health Science and Human Ecology

Jack Brown Hall, Room 263  
(909) 537-5339 <http://health.csusb.edu/>

**FACULTY:** Dorothy Chen-Maynard, Kim Clark, Ted Coleman (Chair), Daniel Fahey, Marsha Greer, Joe Hughes, Robert LaChausse, Chris Lindfelt, Lal Mian, Robert Phalen

## MASTER OF SCIENCE IN HEALTH SERVICES ADMINISTRATION

### Requirements (72 units)

The Master of Science in Health Services Administration is appropriate for students preparing to become health service administrators or managers in hospitals, health maintenance organizations, medical group clinics, nursing homes, public health departments, state and federal health agencies, military health services, or other health service organizations.

Specific entrance requirements have been established by the university and the Department of Health Science and Human Ecology. Information about the entrance requirements is available at the department office.

Students who wish to design a specific, individualized master's degree related to health science should also consider the M.A. in Interdisciplinary Studies. Students can successfully combine courses from several relevant fields to build interdisciplinary programs serving their career goals in such areas as Community Health Education, Health Promotion, Environmental Health, Occupational Health/Industrial Hygiene, Public Health, and Gerontology. For further information see the M.A. in Interdisciplinary Studies on Page 464.

Students may also earn a certificate in Finance, Accounting, and Information Systems along with the Master of Science in Health Services Administration.

### Admission to the M.S. Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A minimum grade point average of 3.0 ("B") for the major or for the last 90 quarter units of the bachelor's degree, or for at least 12 units of graduate work;
2. Completion of the graduate entrance writing requirement;
3. Three letters of recommendation, including one from the school where the candidate most recently graduated, or from someone who can attest to the candidate's academic and scholastic ability in a graduate degree program;
4. A double-spaced paper not to exceed three pages providing a biographical sketch of the student's life, work background, and experiences. The paper is to be concluded with a discussion (not to exceed one page) which addresses the reasons for applying to this graduate program, plus career goals and aspirations.

Students who meet the above criteria may be admitted as conditionally classified graduate students. To attain fully classified status, students must satisfy conditions set by the department's graduate committee, including completion of at least 12 quarter units of appropriate course work at California State University, San Bernardino with a grade point average of 3.0 ("B") or better and removal of deficiencies, if any.

### Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Been accepted by a major advisor from the faculty of the Department of Health Science and Human Ecology who will also accept chairing the student's thesis committee if the thesis option is selected;
3. Completed at least 12 quarter units of required course work as a graduate student at this university with approval of the major advisor and with a minimum grade point average of 3.0 ("B");
4. Candidacy will be granted upon completion of HSCI 610 and 611 plus 24 units from the basic core of courses;
5. Gained a recommendation for advancement to candidacy from the Graduate Coordinator of the Department of Health Science and Human Ecology;
6. Submitted a formal program of study of graduate course work prepared in consultation with the major advisor and approved by the graduate coordinator of the Department of Health Science and Human Ecology. The program will include an administrative residency/internship or a thesis.

### Requirements for Graduation

In addition to the general requirements of the university and the department, graduation requirements include:

1. A minimum of 72 units of approved graduate-level work included in the formal program, with at least half of the units required for the degree gained from 600-level courses in Health Science and Human Ecology;
2. Advancement to candidacy for the degree and approval of the specific program study;
3. A grade point average of 3.0 ("B"), or better, in all graduate course work and research fulfilling the requirements of the Master of Science in Health Services Administration, and grades of "C" (2.0) or better in all courses in the program;
4. Either A or B below:
  - A. Completion of the administrative residency/internship with a final project;
  - B. Completion and defense of an acceptable thesis;
5. The graduation writing requirement is met upon successful completion of the research thesis or a project report of a graduate internship.

Classified and conditionally classified graduate students in the Master of Science program must complete their degree requirements within five years.

### Degree Requirements (72 units)

#### Foundation (8 units)

1. HSCI 610. Social and Behavioral Influences on Public Health (4)
2. HSCI 611. Public Health Systems Organization and Delivery (4)

#### Basic Core (24 units)

1. HSCI 601. Administration of Health Care Programs (4)
2. HSCI 602. Management, Organization, and Planning in Health Services (4)
3. HSCI 603. Health Economics and Financial Systems (4)
4. Four units chosen from:
  - ACCT 605. Health Care Accounting and Financial Analysis (4)
  - HSCI 605. Health Care Accounting and Financial Analysis (4)
  - HSCI 608. Health Research Methods (4)
  - HSCI 612. Public Health Statistics (4)

## Leadership Core (24 units)

1. HSCI 635. Communication and Human Relations in Health Services (4)
2. HSCI 645. Information and Technology Systems Management in Health Services (4)
3. HSCI 653. Health Law and Medical Ethics (4)
4. HSCI 665. Strategic Health Services Management and Change in Health Care Organizations (4)
5. HSCI 675. Health Services Administration Leadership, Team and Quality Development (4)
6. HSCI 685. Health Services Administration Capstone Seminar (4)

## Electives (8 units)

1. Eight units chosen from:
  - ECON 590. Seminar in Economics (4)
  - HSCI 550. Health Aspects of Death and Dying (2)
  - HSCI 590. Current Topics in Health Administration and Planning (2)
  - HSCI 595. Independent Study (1-5)
  - HSCI 620. Advanced Topics in Epidemiological Methodology (4)
  - HSCI 632. Health Policy and Decision-Making (2)
  - HSCI 640. Administration of Health Education Programs (4)
  - HSCI 650. Administration of Environmental Management Programs (4)
  - HSCI 660. Advanced Topics in Health Science and Human Ecology (2-4)
  - HSCI 670. Directed Readings (1-4)
  - INFO 609. Information Management Systems (4)
  - MGMT 601. Organization Theory and Behavior (4)
  - MGMT 641. Managing Human Resources (4)
  - MKTG 560. Services Marketing (4)
  - MKTG 605. Marketing Management (4)
  - MKTG 610. Consumer and Organizational Buying Behavior (4)
  - MKTG 696. Marketing Strategy (4)
  - NURS 597. Issues and Trends in Health Care (4)
  - SCM 607. Supply Chain Management (4)
  - SCM 611. Logistics and Supply Chain Management Strategies (4)
  - SCM 614. Advanced Quality Management (4)
  - SCM 650. Information Decision Systems (4)
  - SCM 660. Supply Management (4)
  - PA 462. Public Personnel Administration (4)
  - PA 463. Governmental Budgeting (4)
  - PA 514. Management of Private Nonprofit Organizations (4)
  - PA 568. Accounting for Government and Not-for-Profit Organizations (4)
  - PA 662. Human Resource Management in the Public Sector (4)
  - PA 663. Public Budgeting and Finance (4)

or other electives upon approval of major advisor.

## Culminating Experience/Application of Learning (8 units)

1. One of the following options:
  - Internship/Project Option (8 units)**
    1. HSCI 697A. Administrative Residency I: Internship (4)
    2. HSCI 697B. Administrative Residency II: Internship and Final Project (4)
  - Thesis Option (8 units)**
    1. HSCI 699A. Thesis I: Proposal Development and Research (4)
    2. HSCI 699B. Thesis II: Research, Writing and Defense (4)

## COURSE OFFERINGS IN HEALTH SCIENCE (HSCI)

## Upper Division

### 505. School Nurse Credential Program Orientation

Overview of the School Nurse Credential Program including course-work, expectations, timelines and basic skills needed to provide screening for vision, scoliosis, and dental needs. Graded credit/no credit. Prerequisite: admission to the School Nurse Credential Program. (2 units)

### 510. Hospital Administration

Organization and administration of hospital facilities including planning and evaluation of services. Role of the hospital as part of the community. Formerly HSCI 427. Prerequisites: HSCI 271, and MGMT 302 or PSYC 302, or consent of instructor. (4 units)

### 511. Organization and Management of Long-Term Care Facilities

Examination of the professional administrative role and managerial concepts in long-term facilities, including nursing homes. Formerly HSCI 455. Prerequisites: HSCI 271, and MGMT 302 or PSYC 302, or consent of instructor. (4 units)

### 512. Clinical Operations of Ambulatory Care/ Group Practices

The management of physician practices, medical groups, and ambulatory care organizations such as imaging center, outpatient surgery centers and other outpatient services. Students will develop an understanding of issues and acquire skills in the management of non-acute care organizations owned or substantially controlled by physicians. Previously offered as a topic under HSCI 452. Prerequisite: HSCI 120 or consent of instructor. (4 units)

### 513. Managed Care Systems

Principles and processes of utilization management, risk contracting, capitation, provider contracting, contract negotiations, division of financial responsibility and Health Maintenance Organization (HMO) relationships, including quality outcomes measurements, patient satisfaction, and the specialist referral process. Prerequisite: HSCI 120 or consent of instructor. (4 units)

### 525. Health Data Analysis and Demography

Introduction to analysis of health data using statistical procedures, development of skills for determining analytical techniques and procedures for interpretation and presentation of resultant data; examination of sources and evaluation of demographic data and relationships to such topics as fertility, morbidity, mortality, population projection, life tables and migration. Prerequisites: HSCI 451 and MATH 305 or 350 or consent of instructor. (4 units)

### 530. Food-Borne Illnesses and Their Prevention

Food-borne illnesses and food poisoning of microbial and chemical origins, causation and environmental control measures; proper environmental control measures; and proper environmental health conditions involved in storage, transportation and service of foods in order to minimize health dangers. Formerly HSCI 430. Prerequisite: HSCI 352. (4 units)

**531. Bioterrorism**

History, identification, properties and mode of transmission of agents of bioterrorism, including preventive, control and treatment measures against bioterrorism. Prerequisites: college-level biology and chemistry or consent of instructor. (4 units)

**540. School Health Programs and Practices**

Advanced examination of the teachers' role within a coordinated school health program. Stat and national guidelines are also reviewed. Prerequisite: must be a "2042" or Ryan credential candidate, or consent of instructor. (4 units)

**550. Health Aspects of Death and Dying**

Investigation into how the realities of death and loss influence the quality of a person's life and personal health status. The focus is on assisting students and professionals to develop the skills necessary to assist individuals deal with death, loss, grief, bereavement, and mourning in the healthiest ways possible. (4 units)

**557. Hazardous Material Control**

Major methods for the control of hazardous wastes from generation through disposal, including disease, environmental and legal aspects of hazardous wastes as well as discussion of various disposal techniques. Formerly HSCI 357. Prerequisites: college-level biology and chemistry courses. (4 units)

**558. Management of Water Quality**

Survey of water quality parameters and pollution control techniques. Includes in-depth discussion on current topics in water legislation, water pollution and its impact on public health, flood impacts, water conservation options and drought management. Prerequisite: prior or concurrent enrollment in HSCI 617 or consent of instructor. (4 units)

**561. Maternal and Child Nutrition**

Significance and role of nutrition during pregnancy, lactation, and childhood including undernutrition. (2 units)

**562. Issues in International Nutrition**

Incidence of malnutrition in developing and industrialized countries. Focus on the multiple causes of malnutrition around the world including food production and distribution, politics and economic policies. (2 units)

**590. Current Topics in Health Administration and Planning**

Presentation and analysis of a particular issue or topic in health services administration or planning. May be repeated for credit as topics change. (2 units)

**595. Independent Study**

Research in special topics including library studies and/or laboratory work under the direction of a faculty member. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-4 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**600. Seminar in Health and Human Ecology**

Philosophical foundations of health and human ecology. Historical, contemporary, and professional perspectives. (4 units)

**601. Administration of Health Care Programs**

Economic forces which impact on health and health delivery systems and an assessment of the distribution of financial resources required to sustain these systems. Emphasis on trends in financing health care and the economic influence of reimbursement policies on financial decision-makers. (4 units)

**602. Management, Organization, and Planning in Health Services**

Organizational, environmental, socio/political, and behavioral aspects of health and health delivery systems. Ecological perspectives on planning and administrative approaches in developing, modifying, and sustaining modern health systems. (4 units)

**603. Health Economics and Financial Systems**

Micro- and macroeconomic aspects of health services, various payment approaches, third-party reimbursement systems, budgeting and financial analysis, decision-making, and planning in health services and organizations. (4 units)

**604. Theory and Practice of Interventions**

Review of current theories and practices of effective prevention and intervention programs, including intervention mapping, program planning, and implementation in schools and community settings with youth. Prerequisite: HSCI 470 or consent of instructor. (4 units)

**605. Health Care Accounting and Financial Analysis**

Basic concepts, methods, and application of cost and accrual accounting, finance, and budgeting techniques and methods applied to health services and health care organizations, with computer application and analysis. (Also offered as ACCT 605. Students may not receive credit for both.) (4 units)

**606. Advanced Program Evaluation**

Advanced topics in health and human services program evaluation models, data collection, quantitative and qualitative methods, data analysis, and data interpretation. Prerequisites: HSCI 471; and HSCI 690 or EDUC 663; or consent of instructor. (4 units)

**607. Cross Cultural Aspects of Health**

Examination of the roles of cultures and their relationships to health status, health practices, and health-seeking behaviors. Emphasis on the influence of culture on research, statistics, and interventions. Prerequisites: classified graduate status in one of the department's graduate programs, prior or concurrent enrollment in HSCI 503 or consent of instructor. (4 units)

**608. Health Research Methods**

Multidisciplinary focus on general research methods including the concept of scientific methodology, the logic of research design and applicability of theoretical and experimental approaches in the health professions. Prerequisite: classified graduate status, HSCI 612, prior or concurrent enrollment in HSCI 617, or consent of instructor. (4 units)

**610. Social and Behavioral Influences on Public Health**

Social and behavioral determinants of health status, and identification and solution of public health problems including preventive care. Formerly HSCI 501. (4 units)



**611. Public Health System Organization and Delivery**

Public health system organization, function, financing and public policy. Includes an examination of the relationship between the public health system and medical care systems. Formerly HSCI 502. (4 units)

**612. Public Health Statistics**

Statistical methods commonly used in the collection and analysis of public health data. Includes descriptive statistics, basic concepts of probability, statistical inference, analysis of variance, correlation, regression, non parametric statistics, and introduction to the use of statistical software. Emphasis on understanding and applying statistical concepts to the interpretations of health research data. Formerly HSCI 503. Prerequisites: college algebra and admission to the M.A. in Education, Health Education Option or the Master in Public Health or consent of instructor. (4 units)

**613. Principles of Health Behavior**

Application of psychological and behavioral sciences to health promotion and disease prevention strategies. Examination of factors that predispose, enable, and reinforce health-related behaviors, including the significance of social support, provider-client interactions, and the media. Prerequisites: HSCI 607, and classified status or consent of instructor. (4 units)

**614. Health Education Practice**

Philosophical, ethical, and historical roots of contemporary public health education and health promotion. Emphasis on frameworks and strategies used in practice. Prerequisites: classified status, HSCI 607, and 613, or consent of instructor. (4 units)

**615. Health Education Program Planning and Evaluation**

Theory and practice of community health programs including strategic planning, community analysis and needs assessment, setting goals and objectives, implementation strategies, program evaluation, and grant writing. Prerequisites: classified status, prior or concurrent enrollment in HSCI 607, 613, and 614, or consent of instructor. (4 units)

**616. Environmental and Occupational Health**

Physical, chemical, and biological factors of the environment and their impacts on human health and well-being. Includes air quality, water hygiene, food sanitation, radiation, solid and hazardous wastes, vector control, and work place hazards with emphasis on contemporary issues. Formerly HSCI 504. (4 units)

**617. Epidemiology**

Examination of epidemiologic concepts in relation to specific public health issues. Disease investigation techniques, causal factors, case histories, and related biostatistics are examined, including implications for public health policy and intervention. Formerly HSCI 506. Prerequisites: HSCI 610, 611, and 612. (4 units)

**620. Advanced Topics in Epidemiological Methodology**

Concepts and methodologies of contemporary epidemiology and their relationship to managing and planning health and environmental systems. Prerequisites: HSCI 451 and 690. (4 units)

**621. Individual and Small Group Interventions in Health Promotion**

Theories and strategies of individual and group intervention in behaviors related to premature morbidity and mortality. Includes assessment, intervention, planning and follow-up, referral skills for the health education/health promotion specialist. Formerly HSCI 560. Prerequisite: HSCI 604. (4 units)

**622. Health Education Curriculum and Instruction**

Overview of health education curriculum development and implementation, including the parent-community advisory process, curriculum selection and alignment with state standards, course design, student grading and assignments, units of study and lesson plans, lesson presentations, and course evaluation methods. Formerly HSCI 591. Prerequisite: completion of HSCI 432 and 433. (4 units)

**623. Health Teaching Practicum**

Classroom-based practice in teaching methods and materials used in secondary health education, including planning, class management and student evaluation. One hour lecture and six hours laboratory. Formerly HSCI 592. Prerequisite: HSCI 622. (4 units)

**632. Health Policy and Decision-Making**

Issues and problems in the area of health administration. Emphasis on quality assurance, legal aspects, policy development, and decision-making as related to health care planning operations. Prerequisites: HSCI 271 and 600. (2 units)

**635. Communication and Human Relations in Health Services**

Techniques for effective written and oral communication at the interpersonal and organizational levels. Particular emphasis is placed upon enhancing human relations skills in health services settings. (4 units)

**640. Administration of Health Education Programs**

Current developments in health education related to management and planning of health promotion programs, including strategies to facilitate communication, decision-making, and problem solving. Prerequisites: classified status, prior or concurrent enrollment in HSCI 615, or consent of instructor. (4 units)

**645. Information and Technology Systems Management in Health Services**

Information systems, networks, and computer software systems, used in health services setting. Prerequisite: consent of instructor. (4 units)

**650. Administration of Environmental Management Programs**

Analysis of local, state, and national environmental and occupational health programs including program planning and evaluation. Comparative study of international environmental management problems, styles, and techniques. Prerequisites: HSCI 352 and 600. (4 units)

**651. Air Quality Management**

Advanced concepts of air pollution and analysis of relationship among sources, meteorology, health effects, monitoring, sampling, and emission control systems. Laws and regulations with interpretation and application to the industry. Prerequisites: classified graduate status and HSCI 617, or consent of instructor. (4 units)

**652. Industrial Hygiene**

Principles and practices applied in industrial hygiene with regulations applicable to recognition, evaluation, and control of work place hazards including risk assessment, advanced techniques, and instrumentation used in the solution of work place hazards. Prerequisites: classified graduate status and HSCI 617 or consent of instructor. (4 units)

**653. Health Law and Medical Ethics**

Legal and ethical issues and practices related to health care delivery and health services administration. Ethical administrative behavior, standard of care, tort law, and professional liability, negligence and liability law, contracts, lawsuits, and civil liability process, corporate law and liability, antitrust, case law, and related health law issues are covered. (4 units)

**654. Applied Vector Control**

Principles and practices used in vector control programs, including advances in chemical and non-chemical control methods, environmental dynamics, and impacts of pesticides on public health and environmental quality, pesticide resistance in target species, pesticide legislation, and program funding. Prerequisites: classified graduate status and HSCI 617 or consent of instructor. (4 units)

**659. Research Methods in Environmental Health Science**

Research methods and application to contemporary environmental health problems. Data analysis and development of skills for determining appropriate analytical techniques and procedures. Prerequisite: HSCI 612 or consent of instructor. (4 units)

**660. Advanced Topics in Health Science and Human Ecology**

Analysis of current literature, practices, procedures, and issues in health science and human ecology at local, state, national, and international levels. May be repeated for credit as topics change. (2-4 units)

**661. General Nutrition**

Application of the principles of physiology to the study of nutrition emphasizing nutrient functions, nutrient requirements, and impact of diet on health and disease, including both macronutrients and micronutrients. Prerequisites: classified graduate standing and prior or concurrent enrollment in HSCI 617 or consent of instructor. (4 units)

**663. Principles of Public Health Nutrition**

Major nutrition-related diseases and their prevention, including effects of public policy on health status. Prerequisites: classified graduate standing in one of the department's graduate programs, HSCI 661, or consent of instructor. (4 units)

**664. Nutrition in Health and Disease**

Descriptive epidemiology of several major chronic diseases, especially type-2 diabetes, cardiovascular disease, cancer, and AIDS. Focus on understanding the role, strengths, and limitations of nutritional epidemiology in researching the etiology of these diseases, and of public health nutrition as one avenue of response. Prerequisites: classified graduate standing in one of the department's graduate programs, prior or concurrent enrollment in HSCI 617 and 661, or consent of instructor. (4 units)

**665. Strategic Health Services Management and Change in Health Care Organizations**

Health service organizations' mission, vision, internal and external evaluation. Medical care organization strategy evaluation, formulation, tactics, and development. Health planning methodologies, evaluation, feedback, and the process and dynamics of medical organization change. Prerequisites: HSCI 601, 602, 603, and 605. (4 units)

**667. Nutritional Assessment**

Assessment of nutritional status of both individuals and populations for purposes of etiologic research and disease prevention and control. Use of biochemical, anthropometric, and questionnaire methods for assessment of diet, body composition, physical activity, and biochemical characteristics. Emphasis on methods appropriate for measurement of any exposure in epidemiological or population studies. Prerequisites: classified standing in the department's graduate program, prior or concurrent enrollment in HSCI 617 and 661, or consent of instructor. (4 units)

**670. Directed Readings**

Directed independent study of classic and contemporary writings in a defined area combined with scheduled individual and small group conferences with supervising faculty member. Prerequisites: graduate standing and consent of instructor. (1-4 units)

**675. Health Services Administration Leadership, Team and Quality Development**

Health services administration leadership skill development including health administration team behaviors, actions, and approaches. Health services team development for continuous quality improvement process and management. Prerequisites: HSCI 601, 602, 603, and 605. (4 units)

**685. Health Services Administration Capstone Seminar**

Integration and application of leadership theory and administrative skills and approaches as applied to the organizational and team management process and management of health services organizations. Prerequisites: HSCI 601, 602, 603, 604, 605, 606, 610, 611, 690, and concurrent enrollment in HSCI 645 and 675. (4 units)

**689. Field Experience**

Theory and skills in a health-related organization, community or agency setting under the direction of a public health professional, including self-analysis of strengths, competencies, and professional development plans. Number of required units is determined in consultation with advisor. Prerequisites: advancement to candidacy and concurrent enrollment in HSCI 695. (2-8 units)

**690. Graduate Research Methodology in Health Science**

Graduate-level research methods and application to contemporary health problems in health services administration. Health data analysis and development of skills for determining appropriate analytical techniques and procedures. Four hours seminar and three hours data analysis laboratory. Materials fee required. Formerly HSCI 598. Prerequisite: HSCI 315 or consent of instructor. (5 units)

**695. Capstone Seminar**

Synthesis and integration of knowledge acquired in coursework. Special emphasis on the multidisciplinary analysis of complex public health issues. Prerequisites: advancement to candidacy, completion of a minimum of 16 units in the student's advisement area, and concurrent enrollment in HSCI 696, 699, or 999. (4 units)

**696. Project**

- A. I. Proposal Development and Research. Independent graduate research or project conceptualization conducted under the guidance of an advisor in the Department of Health Science and Human Ecology. Prerequisites: completion of at least 36 units of approved course work toward graduation and advancement to candidacy. (4 units)
- B. II. Research/Project Development, Writing, and Defense/Presentation. Independent graduate research or project development conducted under the guidance of an advisor in the Department of Health Science and Human Ecology. Includes formal defense or professional presentation. Prerequisites: successful completion of HSCI 696A. (4 units)

**697. Administrative Residency**

- A. I. Internship. First half of a 720-hour supervised internship in sites such as hospitals, health plans, HMOs, medical groups, managed care organizations, private or public health services or agencies. Requires a rotation in administrative organization and function. Prerequisites: HSCI 601, 602, 603, 605, and 690, and completion of at least 36 units of approved coursework toward graduation, advancement to candidacy, and consent of department. (4 units)
- B. II. Internship and Final Project. Second half of a 720-hour supervised internship in sites such as hospitals, health plans, HMOs, medical groups, managed care organizations, private or public health services or agencies. Requires completion of the rotation of administrative organization and function. Completion of final major project. Prerequisites: HSCI 697A and consent of department. (4 units)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

**699. Thesis**

- A. I. Proposal Development and Research. Independent graduate research conducted under the guidance of an advisor in the Department of Health Science and Human Ecology. Prerequisites: HSCI 601, 602, 603, 605, 690, and completion of at least 36 units of approved coursework toward graduation and advancement to candidacy. (4 units)
- B. II. Research, Writing, and Defense. Independent graduate research conducted under the guidance of an advisor in the Department of Health Science and Human Ecology. Prerequisite: successful completion of HSCI 699A. (4 units)

**999. Comprehensive Examination**

Assessment of student's ability to integrate the knowledge of the discipline, show critical and independent thinking, and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, completion of a minimum of 16 units in the student's area of concentration, approval of department, concurrent enrollment in HSCI 695, and good academic standing. (0 units)

# HISTORY

## Department of History

Social and Behavioral Sciences Building, Room 327F  
(909) 537-5524 <http://csbs.csusb.edu/history/>

The following courses are offered in support of graduate degree programs offered at this university.

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### COURSE OFFERINGS IN HISTORY (HIST)

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#### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

#### 600. Proseminar in History

Survey of the concepts and ideas that historians study, how they approach the study of historical phenomena, and what methods they employ in their analysis. The seminar will include discussion of the relationships of the discipline to other social science disciplines and the unique contributions history has made to knowledge in general and in the social sciences. Prerequisite: consent of instructor. (4 units)

#### 603. Seminar in Modern Military History

Analyses of selected military operations since World War II. May be repeated once for credit, as topics change, with consent of student's advisor. (4 units)

#### 630. California Water History

History of the development of water policy in California from pre-colonization times to present. (4 units)

#### 690. Advanced Topics in History

In depth study of an advanced topic in history. May be repeated for credit as topics change. (4 units)

# HUMAN DEVELOPMENT

## Department of Psychology

Social and Behavioral Sciences Building, Room 425  
(909) 537-5570 <http://psychology.csusb.edu/>

The following courses are offered in support of graduate degree programs offered at this university.

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### COURSE OFFERINGS IN HUMAN DEVELOPMENT (HD)

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#### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

#### 690. Families and Parenting

A review of research on selected topics related to family and parenting issues, and the relation of such to child development. Prerequisite: classified graduate standing. (4 units)

#### 695. Graduate Project

Preparation and implementation of a project based on a thorough review of theory and empirical research under the guidance of an advisor in the Department of Psychology. Includes completion of a written document containing the elements described above and a formal defense. Prerequisites: PSYC 611, 640, advancement to candidacy and consent of instructor. (5 units)



# HUMANITIES

## College of Arts and Letters

University Hall, Room 237 or 339  
(909) 537-5800 or (909) 537-5869 <http://cal.csusb.edu/>

The following courses are offered in support of graduate degree programs offered at this university.

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### COURSE OFFERINGS IN HUMANITIES (HUM)

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#### Upper Division

##### 595. Independent Study in Humanities

Advanced study in the Humanities. May be repeated for credit. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, including approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-4 units)

##### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

##### 695. Directed Graduate Studies

Graduate-level independent study under the direct supervision of a faculty member from the student's committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of dean of graduate studies. A total of eight units may apply toward graduation. (1-6 units)

##### 699. Thesis

Preparation of Master of Arts thesis under the direction of a faculty member approved by the committee on graduate education. Maximum of nine credits applicable toward the Master of Arts, with a special major. Prerequisite: advancement to candidacy. (1-5 units)

# INTERDISCIPLINARY STUDIES

## Master of Arts in Interdisciplinary Studies

### Office of the Dean of Graduate Studies

Administration Building, Room 127  
(909) 537-5058 <http://gradstudies.csusb.edu>

The university offers a limited number of courses outside of its department and school structure. Also offered as interdisciplinary studies are the certificate programs in international studies and bilingual/crosscultural studies. See Pages 290 and 316.

## MASTER OF ARTS IN INTERDISCIPLINARY STUDIES

### Requirements (48 units)

Occasionally a student wishes to pursue special interests or career goals that are not met by existing graduate programs. For this student, the Master of Arts in Interdisciplinary Studies offers the opportunity to create a unique master's degree program or one that is not otherwise substantially available in a current graduate program offered at this university.

This individualized master's degree is designed to be a highly challenging academic program for the self-motivated student who has a clear perception of objectives and a background which will allow advanced study in the disciplines combined in the program. The Interdisciplinary Studies M.A. is designed to accommodate unique student interests or to prepare students for fields which require programs not presently offered at the university. It is not a replacement of existing degree programs but an enrichment of the university's offerings. This program is designed by the student in consultation with the Dean of Graduate Studies and three faculty members. The three faculty members, who comprise the student's faculty committee, are selected from more than one academic discipline. Once the program is approved by the committee, it is then submitted to the University Curriculum Committee for its approval.

The Integrative Studies Track is directed primarily to experienced teachers who are currently in elementary, middle school and high school settings. This option under the M.A. in Interdisciplinary Studies reflects the desire of many faculty across schools and departments to work together to provide an informed approach to interdisciplinary inquiry and its subsequent integration into educational environments. This option is more than just an interdisciplinary proposal. It seeks to go beyond cursory knowledge of disciplines to substantive inquiry which connects and synthesizes various perspectives. Teachers at all levels and throughout all disciplines are required to create learning environments which delve deeply into substantive content, engage students in critical processing and reflection, integrate disciplinary perspectives and complex experiences in which assessment is related to real-world contexts. This graduate program provides an alternative form of professional education for teachers. Rather than a completely individualized plan, the Integrative Studies track requires six designated courses with the remaining course work taken outside the College of Education.

**Application Process:** The procedures listed below are for the individualized M.A. in Interdisciplinary Studies. Students interested in the Integrative Studies Track or the E-Marketing Communication and New Media Option should contact the program coordinators.

1. Determine the feasibility of pursuing an Interdisciplinary Studies M.A. by reviewing the requirements and examining available CSUSB master's programs to see if the proposed degree could be met through any of these. Explore the resources of the campus needed for an Interdisciplinary Studies M.A. in terms of course offerings, library resources, facilities, and faculty expertise;

2. Prepare a written proposal eight pages in length to include the following:
  - a. Identify by title the proposed interdisciplinary program of study (i.e., Interdisciplinary Studies Master's Degree in [50-space limit]);
  - b. Describe the purpose or focus of this specially designed degree program;
  - c. Explain why this course of study cannot be pursued within one department with electives from other departments;
  - d. Explain how this program relates to the student's educational and career goals;
  - e. Indicate student's background, both academic and experiential, for undertaking this study;
  - f. List the CSUSB courses appropriate to meeting goals;
3. Submit the proposal to the Office of Graduate Studies for review and approval. If the draft proposal is found promising, and University facilities can support the proposed program of study, the Dean of Graduate Studies will schedule an appointment to discuss the project and provide the forms and guidelines necessary to proceed with formal application to the program as outlined in item 4 below;
4. To complete the formal application for acceptance to an Interdisciplinary Studies Master's program the student must:
  - a. Secure the agreement of faculty in the disciplines related to the proposed special program to serve as members of the Interdisciplinary Studies Graduate Committee. This committee must consist of no less than three tenured/tenure-track, full-time faculty members at CSUSB;
  - b. Convene a meeting of the Interdisciplinary Studies Graduate Committee. At this meeting the committee will: review student's documents (i.e., CSUSB transcripts, Statement of Purpose, etc.); identify the appropriate preparatory course work, completed or to be completed; and formulate with the student an academically sound program of graduate study related to their Statement of Purpose; and develop the Approved Study Plan for the Master's Degree in Interdisciplinary Studies;
  - c. On the form provided, list the five upper-division prerequisite courses, each with a grade of "B" (3.0) or better, in the major discipline of the proposed program. The determination of the major discipline is subject to the approval of the University Curriculum Committee;
  - d. On the Approved Study Plan form list the minimum of 48 units of course work, 70% of which must consist of 500- or 600-level courses, to be included in the Interdisciplinary Studies M.A. As an interdisciplinary program, these courses should include work from two or more departments. To avoid later difficulties with key courses that are not offered prior to graduation, reasonable substitutions should be listed where possible;
  - e. Secure signatures on the application from the Interdisciplinary Studies Graduate Committee. The Interdisciplinary Studies M.A. proposal must be signed by three faculty members who have worked with the student in developing the proposed course of study. The faculty member who will chair the advisory committee must write a statement of support which includes a brief evaluation of the proposal;
5. Submit the completed proposal for the Master's Degree in Interdisciplinary Studies to the Dean of Graduate Studies. The Office of Graduate Studies will attach a copy of current CSUSB transcripts. These materials constitute the Application for a Master's Degree in Interdisciplinary Studies and will be forwarded to the University Curriculum Committee for consideration. The committee meets regularly throughout the academic year and applications can be submitted at any time, though every effort should be made to turn in the proposal early enough in the term to receive approval prior

to registration for the next term. Applications cannot be considered during the summer quarter.

The application materials should be filled out with great care and accuracy. Hastily done or carelessly prepared proposals are unlikely to convince the Curriculum Committee of the seriousness of the proposal. The signature of the Chair of the University Curriculum Committee on the application for the Master's Degree in Interdisciplinary Studies signals acceptance of an applicant to the program. Subsequent modification of an Approved Study Plan requires approval of the student's Interdisciplinary Studies Graduate Committee and the Dean of Graduate Studies on an official Change of Study form.

No more than eight units of proposed course work can be completed prior to submission of the proposal to the University Curriculum Committee;

6. The Dean of Graduate Studies will notify the student in writing of the decision of the University Curriculum Committee. This may be approval or request for resubmission;
7. Any change or substitution of courses in the approved program must be approved by the student's faculty committee and the Dean of Graduate Studies;
8. Upon approval of the Interdisciplinary Studies M.A. proposal, the student may formally declare an Interdisciplinary Studies M.A. At graduation, the diploma will show only an M.A. in Interdisciplinary Studies, unless the student requests in writing the inclusion of the focus of the interdisciplinary study in this fashion: Master of Arts in Interdisciplinary Studies in (subject area). The transcript will reflect both the degree title and the focus of study.

### Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A cumulative undergraduate grade point average of at least 2.5 overall and at least 3.0 ("B") in the major;
2. Completion of the graduate entrance writing requirement;
3. Prerequisite of at least five upper-division courses, each with a grade of "B" (3.0) or better, in the major discipline of the proposed program. The determination of the major discipline is subject to the approval of the University Curriculum Committee;
4. A three-member faculty committee, the chair of which serves as primary advisor, to supervise the course of study;
5. An interdisciplinary studies M.A. proposal submitted, on forms available from the Office of the Dean of Graduate Studies, to the University Curriculum Committee; the program of courses must not significantly duplicate any existing degree program on this campus or on any other state college or university campus within a commutable distance; no more than 12 units of proposed coursework can be taken prior to submission of the proposal to the University Curriculum Committee;
6. Approval of the program proposal by the University Curriculum Committee.

If approval is recommended by the University Curriculum Committee, the student is formally admitted into the program in either conditionally classified or classified status.

### Requirements for Graduation

1. The program of study should be interdisciplinary, including course work from two or more departments represented at the university;
2. The program of study must include a minimum of 48 quarter units of course work, at least 70% of all course work taken must be in 500- or 600-level courses;
3. The program of study must not include more than eight units of independent study course work, excluding the units allowed for thesis or project;

4. The program must include a synthesizing experience (comprehensive examination, project or thesis). This experience will satisfy the graduation writing requirement. The project or thesis may include an oral defense. Students may register for no more than nine units of thesis or project credit. The project or thesis may include an oral defense;
5. The program of study must include a course in research methods in the major discipline;
6. A grade point average of 3.0 ("B") must be earned in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program. Grades of "C-" (1.7) or less cannot be used toward the degree;
7. When students have completed between 12 and 20 units of course work on an approved study plan, it will be necessary for them to submit a formal letter to the Office of the Dean of Graduate Studies requesting advancement to candidacy;
8. Any additional general requirements not cited above and listed on Page 350.

## M.A. IN INTERDISCIPLINARY STUDIES:

### E-MARKETING COMMUNICATION AND NEW MEDIA

#### Requirements (48 units)

The M.A. in Interdisciplinary Studies, E-Marketing Communication and New Media focuses on the development of comprehensive electronic marketing and communication initiatives which will involve building in design, writing skills, data mining functions such as customer relationship management and web-site content management, and ethical issues involved in the implementation of successful electronic communication programs.

For further information about this program, contact Dr. J. S. (Vic) Johar in the Department of Marketing, College of Business and Public Administration, (909) 537-5763. **This program will not be offered during the 2008-2009 academic year.**

### Admission to the Program

1. Completion of an undergraduate degree from a recognized university or institution;
2. Have an overall grade point average of at least 2.5 and at least a GPA of 3.0 ("B") in the major;
3. Students not meeting this requirement must enroll in appropriate courses to bring the grade point average to this level;
4. Completion of at least five upper-division courses in MKTG and/or COMM each with a grade of "B" or better. These may include the program prerequisites of COMM 341 and MKTG 305;
5. Completion of the graduate entrance writing requirement. This can be met by taking the WREE examination, or by enrolling in an upper-division Expository Writing course, MGMT 306, or its equivalent. Note: Students who have received degrees outside the USA are required to take the WREE examination, or, enroll in MGMT 306 or its equivalent;
6. Students who have received an undergraduate degree from outside the USA, must pass the TOEFL Proficiency Exam with a score of 550 or higher, no exceptions. Refer to the Testing Office, JB-405, (909) 537-5041/5045.

### Advancement to Candidacy

1. Students must have achieved classified standing;
2. Students must submit a Request to Advance To Candidacy Form to the Program Coordinator after completing between 12 and 20 units of course work on an approved study plan with a minimum grade point average of "B;"
3. Changes in an approved study plan must be justified and have the written approval of the Program Coordinator;

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- Students advancing to candidacy must also submit a Graduate Project Form to the program coordinator prior to registering for COMM 686 or MKTG 686;
- A graduation check may be requested after a student has advanced to candidacy;
- The format and approval of the student's project for binding and placement in the library must follow university guidelines which can be found in the Graduate Student Handbook available in the Graduate Studies Office, AD-127;
- Any additional general requirements not cited above and listed on Page 350.

**Requirements for Graduation**

- The program of study must include a minimum of 48 quarter units of course work, at least 70% of all course work taken must be in 500- or 600-level courses;
- The program of study must not include more than eight units of independent study course work, excluding the units allowed for the project;
- The program must include a synthesizing experience (project). This experience will satisfy the graduation writing requirement. The project will include an oral defense. Students may register for no more than eight units of project credit;
- The program of study must include a course in research methods in the major discipline;
- A grade point average of 3.0 ("B") must be earned in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program. Grades of "C-" (1.7) or less cannot be used toward the degree.

**Prerequisite Courses (12 units)**

- MKTG 305. Marketing Principles (4)
- COMM 309. Computer Mediated Communication (4)
- COMM 311. Business and Professional Communication (4)

**Degree Requirements (48 units)****Core Courses (32 units)**

- COMM 491. Ethical Aspects of Communication (4)
- COMM 609. Digital Culture (4)
- Four units chosen from:  
COMM 697. Internship in Communication (4)  
MKTG 575. Internship in Marketing (4)
- Four units chosen from:  
COMM 602. Quantitative Research Methods in Communication Studies (4)  
MKTG 640. Advanced Marketing Research (4)
- INFO 150. Web Publishing (4)
- MKTG 540. E-Marketing (4)
- MKTG 610. Consumer and Organizational Buying Behavior (4)
- MKTG 690. Advanced Topics in Marketing (4)

**Project/Thesis (4-8 units)**

- Four to eight units chosen from:  
COMM 686. Graduate Project (4-8)  
MKTG 686. Graduate Project (4-8)

**Electives (8-12 units)**

- Eight to 12 units chosen from:  
COMM 380. Visual Communication (4)  
COMM 502. Communication Law and Policy (4)  
COMM 590. Advanced Topics in Public Relations (4)  
COMM 610. Media and Intercultural Relations (4)  
COMM 671. International Communication (4)  
COMM 690. Seminar in Organizational Communication (4)  
COMM 695. Graduate Independent Study (4)  
MKTG 420. Advertising (4)

- MKTG 446. Advertising Campaign (4)  
MKTG 565. Logistics (4)  
MKTG 590. Seminar in Marketing (4)  
MKTG 620. Advertising Management (4)  
MKTG 624. Marketing for Entrepreneurs (4)

**Note:** No more than 50 percent of the total course credits for this program can be taken in the College of Business and Public Administration.

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**COURSE OFFERINGS IN  
INTERDISCIPLINARY STUDIES (IS)**

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Students in the M.A. in Interdisciplinary Studies program may use one of the following courses for graduate level independent study: ADMN 695, EDUC 601, HUM 695, NSCI 695, SSCI 695.

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**696. Graduate Project**

Preparation of the project for the M.A. under the direction of a faculty member from the student's committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the M.A. Prerequisite: advancement to candidacy. (1-9 units)

**698. Continuous Enrollment for Graduate  
Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

**699. Graduate Thesis**

Preparation of the thesis for the Master of Arts under the direction of a faculty member from the student's committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the Master of Arts. Prerequisite: advancement to candidacy. (1-9 units)



# KINESIOLOGY

## Department of Kinesiology

Health and Physical Education Building, Room 120  
(909) 537-5349 <http://kine.csusb.edu/>

These courses are offered in support of the Master of Arts in Education, Kinesiology Option.

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### COURSE OFFERINGS IN KINESIOLOGY (KINE)

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#### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

##### 600. Graduate Seminar

Examination of selected disciplinary and professional issues in physical education through critical analysis of literature and research findings. (2 units)

##### 623. Sport and Social Issues

Social aspects of sport including social values, race, gender, ethnicity and social deviance. (4 units)

##### 624. Sport Psychology

The study of underlying psychological factors in sports. To include educational implications, strategies with young athletes, and dynamics of the sport group. (4 units)

##### 630. Physical Education for Special Populations

Physical activity assessment, and program development for individuals with disabilities. (4 units)

##### 670. Leadership in Physical Education

Theory and analysis of leadership behavior in physical education. Emphasis on developing leadership knowledge, qualities, and skills applicable to diverse physical activity settings. (4 units)

##### 681. Exercise and Sport Science

Includes discussion of physical activity and fitness across the lifespan, adaptations in exercise testing protocol and exercise prescription for individuals with disabilities, and epidemiological research of health benefits associated with physical activity and fitness. Emphasis on issues of children's fitness and assessment. (4 units)

##### 685. Analysis of Human Movement

Theory and application of techniques used to analyze and describe human movement. (4 units)

##### 999. Comprehensive Examination

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

# MATHEMATICS

## Master of Arts in Mathematics

## Master of Arts in Teaching

Mathematics

### Department of Mathematics

Jack Brown Hall, Room 370  
(909) 537-5361

**FACULTY:** Susan Addington, Joyce Ahlgren, Joseph Chavez (MA Coordinator), Corey Dunn, Nadia Dyakevich, Hajrudin Fejzic, Davida Fischman (MAT Coordinator), Christopher Freiling, Gary Griffing, Ilseop Han, Zahid Hasan, Madeleine Jetter, Yuichiro Kakiyama, Min-Lin Lo, Giovanna Lloset, Shawnee McMurran, Jim Okon, Chetan Prakash, Dan Rinne, John Sarli, Charles Stanton, Robert Stein, Rolland Trapp, Belisario Ventura, Paul Vicknair, Laura Wallace, Wenxiang Wang, Peter Williams (Chair)

## MASTER OF ARTS IN MATHEMATICS

### Requirements (48 units)

The Master of Arts degree in Mathematics is a flexible program that allows students to tailor their studies to individual career goals. It emphasizes mathematical content courses and is appropriate not only for college teaching but also for students considering further graduate work.

Careful advising is essential to ensure that prerequisites for courses are met, and that the course work selected is appropriate for the student's career goals.

### Admission to the Program

In addition to the general requirements of the university, which include a baccalaureate degree from an accredited college, specific requirements for admission to the program are:

1. Successful completion with a grade of at least "B" (3.0) of course work in calculus, abstract algebra, analysis, geometry, number theory and probability deemed equivalent to the core of the mathematics major at California State University, San Bernardino.  
Students who do not meet these criteria may be admitted as conditionally classified graduate students following review by the Department of Mathematics Graduate Committee;
2. Submission of a completed M.A. in Mathematics application form;
3. Completion of the graduate entrance writing requirement;
4. Three letters of recommendation;
5. A letter of not more than three pages, outlining background, experience admission to this program and career goals.

### Advising

Each graduate student should seek advising from the graduate coordinator or other departmental faculty before enrolling in their program. In consultation with their advisor, they will develop an appropriate course of study based on their preparation and interests. The specific program must be approved by the department graduate committee prior to Advancement to Candidacy.

In the latter part of the program, a student will also need a project advisor. Such an advisor should be selected two or three quarters before enrolling in MATH 696. Master's Degree Project I, which is required of all masters candidates.

### Advancement to Candidacy

In order to be advanced to candidacy, the student must:

1. Achieve classified status;

2. Complete at least 15 quarter units and not more than 20 units of applicable work as a graduate student at this university, with a grade point average of at least 3.0 ("B");
3. Begin assembling their portfolio by contributing at least one exemplary problem solution or one proof as described in item 6 of "Requirements for Graduation;"
4. Submit a formal program of graduate work prepared in consultation with and approved by the departmental graduate committee;
5. Gain final approval of the program and of the candidacy itself by the Dean of Graduate Studies.

### Requirements for Graduation

1. Advancement to candidacy for the degree;
2. A minimum of 48 quarter units of acceptable graduate level work as specified below in the formal program;
3. No less than 34 units completed in residence at this university;
4. Completion of a graduate project (MATH 696 and 697). A project proposal must be approved by the departmental graduate committee no later than the quarter preceding enrollment in MATH 696. The written project satisfies the graduation writing requirement. Successful completion of MATH 697 also includes an oral presentation of the project to the department. Guidelines for submitting a project proposal and for the project itself are available from the department office;
5. A grade point average of at least 3.0 ("B") in the core courses as well as an overall grade point average of at least 3.0 ("B") in the program, with no course grade being less than "B-;"
6. Submit a portfolio containing the following items:
  - a. a copy of the approved Advancement to Candidacy form,
  - b. three examples of exemplary solutions to problems in the student's classes,
  - c. four examples of proofs that the student has written in classes in the program, explaining the significance to the material studied,

**Note:** Each of the seven examples above should be from a different course. Name and number must identify the course.

  - d. an announcement of the seminar at which the student presents the project,
  - e. an abstract of the thesis,
  - f. a completed student questionnaire;
7. Any additional general requirements not cited above and listed on Page 350.

### Degree Requirements (48 units)

#### Core Courses (16 units)

1. MATH 604. Seminar in Problem Solving I (4)
2. MATH 614. Studies in Geometry (4)
3. MATH 616. Studies in Algebra (4)
4. MATH 618. Studies in Analysis (4)

#### Electives (28 units)

1. Twenty-eight units of electives selected from the following and including at least 16 units at the 600-level:  
Approved 400-level courses in mathematics not in the core of the major.  
Approved 500- or 600-level courses in mathematics not used to satisfy any other requirement.

#### Graduate Project (4 units)

1. MATH 696. Master's Degree Project I (3)
2. MATH 697. Master's Degree Project II (1)

## MASTER OF ARTS IN TEACHING - MATHEMATICS

### Requirements (48 units)

#### Admission to the Program

In addition to the general requirements of the university, which include a baccalaureate degree from an accredited college, specific requirements for classification in the program are:

1. Successful completion with a grade of "B" (3.0) or better in course work deemed equivalent to the following courses at California State University, San Bernardino:  
MATH 211. Basic Concepts of Calculus  
MATH 212. Calculus II  
MATH 213. Calculus III  
MATH 251. Multivariable Calculus I

One of the following two courses:

- MATH 329. Transformation Geometry  
MATH 529. Advanced Geometry

- MATH 345. Number Theory and Proof  
MATH 372. Combinatorics

2. A teaching credential;
3. Submission of a completed Master of Arts in Teaching with a major in Mathematics (MAT) application form;
4. Completion of the graduate entrance writing requirement;
5. Three letters of recommendation;
6. Submission of a one- or two-page typewritten statement of the student's area of interest, preparation for study in this program and professional goals;
7. Approval by the Graduate Coordinator.

Students who do not meet these criteria may be admitted as conditionally classified graduate students following review by the Department of Mathematics and the College of Education.

#### Advising

Each graduate student must be advised by the graduate coordinator or other MAT faculty before enrolling in the program. Students will develop an appropriate course of study based on their preparation and interests in consultation with an advisor. The specific program must be approved by the MAT Graduate Committee prior to advancement to candidacy.

In the latter part of the program, a student will need a project advisor and two additional members of a project committee, at least one committee member from the department of mathematics and at least one from the College of Education. The student will enroll in EDUC 600 or MATH 600 depending on the affiliation of the project advisor. Members of the project committee should be selected as early as possible in the program, and at least two or three quarters before enrolling in the graduate project course.

#### Advancement to Candidacy

In order to be advanced to candidacy, the student must:

1. Achieve classified status;
2. Submit a formal program of graduate work prepared in consultation with an advisor and approved by the MAT Graduate Committee;
3. Complete at least 15 quarter units and not more than 20 units of applicable work as a graduate student at this university, with a grade point average of at least 3.0 ("B");
4. Gain final approval of the program and of the candidacy itself by the Dean of Graduate Students.

#### Requirements for Graduation

1. Advancement to candidacy for the degree;
2. A minimum of 48 quarter units of acceptable graduate level work as specified below in the formal program;
3. No fewer than 34 units completed in residence at this university;

4. Completion of a graduate project. A project proposal must be approved by the MAT Graduate Committee no later than the quarter preceding enrollment in EDUC 600 or MATH 600. The written project satisfies the graduation writing requirement. Successful completion of the project includes an oral presentation of the project to the faculty. Guidelines for submitting a project proposal and for the project itself are available from the offices of the Department of Mathematics;
5. Submission and approval of a student portfolio assessing and documenting academic progress. Portfolio guidelines are available from the Department of Mathematics;
6. A grade point average of at least 3.0 ("B") in the core courses as well as an overall grade point average of 3.0 ("B") in the program, with no course grade being less than "B-";
7. Any additional general requirements not cited above and listed on Page 350.

#### Degree Requirements (48 units)

Core courses (44 units)

1. MATH 631. Algebra from a Teaching and Problem Solving Perspective (6)
2. MATH 632. Geometry from a Teaching and Problem Solving Perspective (6)
3. MATH 633. Trigonometry from a Teaching and Problem Solving Perspective (6)
4. MATH 634. Calculus from a Teaching and Problem Solving Perspective (6)
5. MATH 635. Statistics and Probability from a Teaching and Problem Solving Perspective (6)
6. ESEC 672. Educational Assessment in Mathematics Teaching (4)
7. EDUC 607. Introduction to Educational Research (4)
8. Two units chosen from:  
EDCI 664. Thesis/Project Design in Curriculum and Instruction (2)  
MATH 664. Project Design in Teaching Mathematics (2)
9. Four units chosen from:  
EDUC 600. Master's Degree Project (4)  
MATH 600. Master of Arts in Teaching Mathematics Project (4)
10. MATH 601. Assessment Portfolio (0)

Elective (4 units)

1. Four units of 400- to 600- level mathematics courses that are applicable to the B.A. or B.S. in mathematics (non-teaching track) or M.A. in Mathematics. Students are encouraged to take MATH 480 if not taken previously.

## COURSE OFFERINGS IN MATHEMATICS (MATH)

### Upper Division

#### 510. Topics in Mathematics

Study of selected areas of advanced mathematics. May be repeated for credit with consent of instructor as topics change. Prerequisite: senior or graduate standing. (4 units)

#### 529. Advanced Geometry

Topics in affine and projective geometry with applications to Euclidean 2 and 3 space and to modern algebra. Prerequisites: MATH 329, 331 and 345. (4 units)

#### 531. Advanced Linear Algebra

Inner product spaces; duality of vector spaces; canonical forms; spectral theory; quadratic forms. Formerly a topic under MATH 510. Prerequisite: MATH 331. (4 units)

**470 / Mathematics****545. Abstract Algebra I (FWS)**

An introduction to algebraic structures, including groups, rings and fields. Prerequisites: MATH 331, 345 and 355. (4 units)

**546. Abstract Algebra II (S)**

Continuation of MATH 545. Prerequisite: MATH 545. (4 units)

**553. Analysis I (FWS)**

Continuous and differentiable functions, infinite series. Uniform convergence, computation with series, functions represented by integrals, theory of integration. Prerequisites: MATH 252 and 355. (4 units)

**554. Analysis II (S)**

Continuation of MATH 553. Prerequisite: MATH 553. (4 units)

**555. Introduction to Point-Set Topology**

Topics to include topological and metric spaces, compactness, product spaces, connectedness, separation properties. Prerequisite: MATH 355. (4 units)

**557. Complex Variables**

Analytic and harmonic functions, power series, Cauchy's Theorem and Cauchy's Formula. Prerequisites: MATH 252 and 355. (4 units)

**565. Mathematical Statistics**

Likelihood ratio, estimators, distributions of estimators, theory of hypothesis testing, linear statistical models. Prerequisite: MATH 465. (4 units)

**570. Partial Differential Equations**

Classification of partial differential equations; heat equation, Laplace's equation, boundary value-problems; separation of variables. Applications of Fourier and Laplace's transforms, numerical methods. Prerequisite: MATH 270 and 355. MATH 241 recommended. (4 units)

**576. Introduction to Mathematical Models**

Topics from linear and probabilistic models, computer simulation, difference and differential equation models. Prerequisites: CSCI 201, MATH 331 and 465. (4 units)

**595. Independent Study**

An independent study course for senior mathematics majors. Prerequisites: MATH 331 and 553, a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted in advance of the quarter in which the course is to be taken. (1-4 units)

**599. Senior Seminar for Future Mathematics Educators**

Summative assessment of subject matter competence for prospective mathematics teachers. Each student will complete and present a project relating advanced mathematics to the high school curriculum, and complete and submit a portfolio of their undergraduate work in mathematics for assessment. Meets four hours per week during the first week and the last four weeks of the quarter. Graded A,B,C/no credit. Prerequisites: MATH 199, 480 and 499. (2 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**600. Master of Arts in Teaching Mathematics Project**

Written project, an oral presentation of the project to the department and a complete Assessment Portfolio. May not be counted toward fulfilling the requirements of the Master of Arts in Mathematics. Graded credit/no credit. Prerequisites: graduate standing, consent of the instructor, approval of the project proposal by the graduate committee and submission of at least three contributions to the Assessment Portfolio. A written proposal for a project must be submitted to the graduate committee no later than the ninth week of the quarter preceding enrollment in MATH 600. (4 units)

**601. Assessment Portfolio**

Preparation of an acceptable student portfolio assessing and documenting academic progress. For detailed requirements see the MAT graduate coordinator. Prerequisite: advancement to candidacy. (0 units)

**604. Seminar in Problem Solving I**

A problem solving seminar emphasizing induction and analogy in the style of George Polya. Prerequisites: MATH 329, 331, 345, 355 and 372. (4 units)

**605. Seminar in Problem Solving II**

Continuation of MATH 604. Prerequisite: MATH 604. (4 units)

**606. Seminar in Problem Solving III**

Continuation of MATH 605. Prerequisite: MATH 605. (4 units)

**610. Topics in Mathematics**

Study of selected areas of advanced mathematics to be determined by the instructor. May be repeated for credit with consent of instructor as topics change. Prerequisite: graduate standing. (4 units)

**611. Operations Analysis**

Scientific approach to the resolution of operational problems. Structure and function of models and decision strategy commonly used in national policy analysis including measures of effectiveness, uncertainty and the misuse of modeling. May not be counted toward fulfilling the requirements in the mathematics major. Prerequisite: one of the following: PSYC 210, MATH 305 or 350, SCM 210 or equivalent. (4 units)

**614. Studies in Geometry**

Advanced topics in affine, projective, elliptic, and hyperbolic geometry. Comparison of synthetic and analytic methods of proof. Prerequisites: MATH 529, 545 and admission to the M.A. in Mathematics program. (4 units)

**616. Studies in Algebra**

Advanced topics in algebra to include constructability, transcendence and solvability of groups and equations. Prerequisites: MATH 546 and admission to the M.A. in Mathematics program. (4 units)

**618. Studies in Analysis**

Theory of multivariable calculus with applications, to include the Inverse Function Theorem, as well as Stokes' and Green's theorems. Prerequisites: MATH 553; either 554, 555, or 557; and admission to the M.A. in Mathematics program. (4 units)



**631. Algebra from a Teaching and Problem Solving Perspective**

Algebraic structure and its development. Equations and systems of equations. Teaching strategies and curriculum issues. Applications and problem solving will be stressed throughout. Students will adapt methods from this course to a teaching setting and report on this experience. Prerequisites: admission to the MAT in Mathematics program and MATH 345, or consent of instructor. (6 units)

**632. Geometry from a Teaching and Problem Solving Perspective**

The transition from geometry as an empirical study first to "local" proofs and then to axiomatic systems. Comparisons of traditional approaches to geometric proof with those of analytic geometry. Focus on construction to illustrate and motivate teaching strategies and curriculum issues. Students will adapt methods from this course to a teaching setting and report on this experience. Prerequisite: MATH 329 and admission to the MAT in Mathematics program, or consent of instructor. (6 units)

**633. Trigonometry from a Teaching and Problem Solving Perspective**

Trigonometric functions, identities and equations as foundation for study of the complex numbers, the complex plane, polar coordinates, de Moivre's theorem, and definition of trigonometric functions in terms of exponential functions. Geometric and analytic properties of the conic sections. Problem solving, curricular and pedagogical issues emphasized throughout. Students will adapt methods from this course to a teaching setting and report on this experience. Prerequisites: MATH 213, 251, 631, 632, and admission to the MAT in Mathematics program, or consent of instructor. (6 units)

**634. Calculus from a Teaching and Problem Solving Perspective**

Focus on non-standard problems and theoretical issues in calculus that lend themselves to multiple problem-solving approaches and pedagogical strategies. Students will adapt methods from this course to a teaching setting and report on this experience. Prerequisites: MATH 213, 251, 631, 632, 633, and admission to the MAT in Mathematics program, or consent of instructor. (6 units)

**635. Statistics and Probability from a Teaching and Problem Solving Perspective**

Basic probability and descriptive and inferential statistics emphasizing active learning teaching strategies. Students will design and carry out an investigative project. Students will adapt methods from this course to a teaching setting and report on this experience. Prerequisites: MATH 372, 631, 632, and 633, and admission to the MAT in Mathematics program, or consent of instructor. (6 units)

**664. Project Design in Teaching Mathematics**

Steps and processes involved in the design and development of research proposals with emphasis on the master's project. Graded credit/no credit. Prerequisites: advancement to candidacy and consent of instructor. (2 units)

**678. Teaching Practicum**

Supervised practice in individual and/or classroom teaching. May be repeated for a total of four units. Prerequisite: admission to the master's program in teaching with a major in mathematics. (2 units)

**695. Graduate Independent Study**

An independent study course for graduate students in mathematics. Prerequisites: advancement to candidacy in the M.A. or M.A.T. in Mathematics program; a grade point average of at least 3.5 in courses in the program; consent of the instructor and approval by the graduate committee. A written proposal for a project must be submitted to the graduate committee no later than the ninth week of the quarter preceding that in which the independent study is to be pursued. (2-4 units)

**696. Master's Degree Project I**

Dissertation preparation and assessment portfolio completion. A written proposal for a project must be submitted to the graduate committee no later than the ninth week of the quarter preceding enrollment in MATH 696. Prerequisites: graduate standing, consent of instructor, approval of the project proposal by the graduate committee and approval of at least five contributions to the assessment portfolio of the seven listed under 6b and 6c in the requirements for graduation. (3 units)

**697. Master's Degree Project II**

Finalizing the master's project including approval of the dissertation format by the Office of Graduate Studies, an oral presentation of the project to the department, and formal acceptance of the completed dissertation. Prerequisites: Math 696 and consent of instructor. (1 unit)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

# MUSIC

## Department of Music

Performing Arts Building, Room 111  
(909) 537-5859 <http://cal.csusb.edu/depts/music/>

The following courses are offered in support of various graduate degrees offered by the university.

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### COURSE OFFERINGS IN MUSIC (MUS)

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#### INDEPENDENT STUDY

##### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

##### 628. Special Projects

Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. A total of eight units may apply toward graduation. Prerequisites: graduate standing and consent of instructor. (1-4 units)

#### MUSIC EDUCATION

##### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

##### 602. Foundations of Music Education

History of music education in America including the various music philosophies and national trends that have influenced the current music teaching profession. (4 units)

##### 603. Music Learning Theories

Learning sequences in musical development including an understanding of music aptitude, rhythm and tonal audition, and the development of music literacy. Prerequisite: completion of MUS 315 or equivalent, or consent of instructor. (4 units)

##### 604. Advanced Instrumental Music Teaching

Development of teaching strategies and techniques for band and orchestral instruments. Prerequisite: MUS 603 or consent of instructor. (4 units)

# NATIONAL SECURITY STUDIES

## Master of Arts in National Security Studies

### Certificate

Intelligence Methodology

### National Security Studies Office

Social and Behavioral Sciences Building, Room 112  
(909) 537-5534 <http://polisci.csusb.edu/nss>

**FACULTY:** Parvez Ashegian, Donovan Chau, Mark Clark (Director), Larry Gaines, William Green, Brian Janiskee, Brian Levin, Norman Meek, Chetan Prakash

Headquartered within the National Security Studies program is the California State University Intelligence Community Center of Academic Excellence (IC CAE), a consortium of seven CSU campuses (CSU Bakersfield, Dominguez Hills, Fullerton, Long Beach, Northridge, San Bernardino and Cal Poly Pomona) that develop students for potential careers in the intelligence community, national service, or as local first responders through education in foreign affairs, world languages, and security studies. The IC CAE also provides such students with opportunities for internships and travel abroad. Contact Mark Clark for more information, 537-5491.

## MASTER OF ARTS IN NATIONAL SECURITY STUDIES

### Requirements (46 units)

The Master of Arts in National Security Studies is a professionally oriented, interdisciplinary, graduate-level program housed within the College of Social and Behavioral Sciences. The program is designed to develop an understanding of the substance and principles of defense policy analysis, strategic planning and arms control in relation to the contemporary international environment. Flexibility within elective courses permits the student to emphasize research in national security issues of his or her special interests.

The program is relevant to established career personnel in defense analysis and related specialties, the military services, the civil service and the intelligence community. Additionally, the program is structured to provide motivated persons holding a Bachelor of Arts degree and/or Bachelor of Science degree from an accredited institution with the higher educational skills necessary for entry into the above mentioned career fields or to pursue doctoral studies.

The program is intended for evening students primarily and, therefore, classes are predominantly scheduled between 6 and 10 p.m.

### Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college or university;
2. Satisfy the National Security Studies graduate admissions committee that sufficient preparation and a satisfactory course of study has been pursued in preparation for graduate study. The committee will notify individual applicants if the GRE General Test is required; (If the test is required and the GRE test results are not received in time for the entry term, admission will be in conditionally classified graduate standing.)
3. A minimum cumulative undergraduate grade point average of at least 2.5 overall and at least 3.0 ("B") in the student's undergraduate major;
4. Completion of the graduate entrance writing requirement;
5. Competence in the following prerequisite courses or their equivalents:

MATH 110. College Algebra  
PSCI 203. American Government  
PSCI 484. National Security Policy (prerequisite for the core courses)

Competence in these areas may be demonstrated by:

- A. Formal completion of the course or its equivalent, OR
- B. Credit by examination (not applicable to PSCI 484. National Security Policy);

6. Submission to the National Security Studies Admissions Committee of a brief statement (one or two double-spaced typewritten pages) of the student's preparation for graduate study and professional aspirations following receipt of the master's degree;
7. Submission of three letters of recommendation from individuals familiar with the student's academic or professional work and potential to complete the program successfully. Letters must come directly from the writer on National Security Studies forms.

Students who meet the requirements for admission to graduate study, but who do not meet the program requirements, may be admitted to graduate study in unclassified postbaccalaureate status or to the program in conditionally classified graduate standing. When the specified deficiencies are removed, student status is changed from conditionally classified to classified. (Unclassified postbaccalaureate students may enroll, when space is available, in selected graduate courses.) No more than 20 quarter units of national security studies course work taken as an unclassified or conditionally classified graduate student may be applied to the program as a classified graduate student.

### Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified status;
2. Selected a graduate advisor to supervise the course of study;
3. Completed at least 16 quarter units of national security studies program course work at this university, and achieved a minimum grade point average of 3.0 ("B") in those courses;
4. Filed a graduate program approved by the student's advisor, the national security studies program director and the Dean of Graduate Studies.

### Requirements for Graduation

1. A minimum of 46 quarter units of acceptable graduate-level work, with at least 36 quarter units completed in residence at California State University, San Bernardino. Thirty-two quarter units must be in 600-level courses;
2. A grade point average of at least 3.0 ("B") in all national security studies program courses taken;
3. Choose Option A or B:
  - A. Completion of acceptable comprehensive final written and oral examinations;
  - B. Completion and defense of an original master's thesis;
4. The graduation writing requirement will be satisfied by achieving a minimum grade point average of 3.0 ("B") in all three core courses. Each core course will allow the student to develop competence in three forms of writing traditional to the field:
  - A. Critical book reviews (PSCI 600),
  - B. Chapter length essay (PSCI 601),
  - C. Article length essay (PSCI 602) and the process of "peer review;"
5. Any additional general requirements not cited above and listed on Page 350.

Classified graduate students in the Master of Arts program must complete their degree requirements within five years of admission to the program. Students in classified status who fail to register for at least one course in the program each quarter will automatically be declassified. PSCI 698. Continuous Enrollment for Graduate Candidacy Standing must be taken if another course is not taken during a given quarter.

**474 / National Security Studies**

The instructor in each 600-level course will complete an evaluation of each student's performance and potential to complete the program successfully. These evaluations will be reviewed by the program director and maintained in the student's file for early consultation with the student about his or her future prospects in the program.

The Master of Arts in National Security Studies is a thesis option course of study requiring either written and oral comprehensive examinations (to be taken in the last quarter of program course work) or a thesis. Students with less than a 3.0 grade point average in the program will not be permitted to take the examinations or propose a thesis. All students are required to take the prerequisite and core courses. In addition, students are required to select a Regional Field (e.g. Eurasia, Middle East) or a Functional Field (e.g. Terrorism, Intelligence, etc.) to be arranged between faculty advisor and student, and approved by the NSS Director.

**Comprehensive Examination**

Comprehensive examinations must be taken in the core and the regional field or functional field. The comprehensive examination committee for each candidate will consist of the core advisor, the advisor of the field and a third faculty member from the department. The examinations will be graded credit/no credit.

An oral examination by the student's committee follows successful completion of the written examination. The oral examination is open for public attendance, but not participation. Should the candidate fail one or more written or oral examination areas, the entire oral or written examination may be repeated one time after remedial course work or study is completed. The scope and deadline for completion of this remedial work will be determined by the student's examination committee at a post-examination conference.

Students must enroll in the Political Science Comprehensive Examination, PSCI 999.

**Thesis**

The criteria for determining who will be allowed to choose the thesis option will be determined by the proposed thesis committee. Students are still required to develop a course of study consistent with the core and one field, as noted above. After completion of a minimum of 30 quarter units, the student will request three faculty to form a preliminary committee, at least two of whom have instructed a course that the student has taken in the program.

**Prerequisite courses (12 units)**

1. MATH 110. College Algebra (4)
2. PSCI 203. American Government (4)
3. PSCI 484. National Security Policy (4)

**Degree Requirements (46 units)****Core courses (16 units)**

1. PSCI 600. Theory and History of Strategy (4)
2. PSCI 601. Strategic Systems and Strategic Thought (4)
3. PSCI 602. International Security (4)
4. Four units chosen from:
  - MATH 611. Operations Analysis (4)
  - PSCI 609. International Relations Theory (4)
  - PSCI 624. Politics of National Security (4)

**Note:** MATH 611 requires a prerequisite of a statistics course.

**Field (12 units)**

Students must take either A or B in consultation with their faculty advisor, courses to be selected from the list below and approved by the program director:

**A. Regional Area of Concentration (12 units)**

Eurasia

Middle East

Others, to be arranged between faculty advisor, students and approved by the NSS Director.

**B. Functional Area of Concentration (12 units)**

Intelligence

Terrorism

Others, to be arranged between faculty advisor, students and approved by the NSS Director.

**Electives (16-18 units)**

1. Eighteen units chosen from among courses not used for either the core or field requirements listed below. Students who elect to complete PSCI 699 must choose 16 units.

ECON 630. International Economic Issues (4)

ENG 631. Approaches to Professional Writing (4)

HIST 521. The Soviet Union (4)

HIST 556. Foreign Relations of the United States (4)

MATH 611. Operations Analysis (4) (if not taken as part of the core requirements)

PSCI 540. Seminar in Comparative Politics (4) when the topic is Central Asian Politics, Eastern Europe, or Middle East Politics

PSCI 581. Political Economy of Russia (4)

PSCI 590. Seminar in International Relations (4) when the topic is Political Intelligence, Seapower, or International Terrorism

PSCI 604. Seminar in International Law (4)

PSCI 605. Topics in Strategy (4)

PSCI 609. International Relations Theory (4) (if not taken as part of core requirement)

PSCI 611. Regional Security of Eurasia (4)

PSCI 613. Middle East Security (4)

PSCI 621. Strategic Intelligence (4)

PSCI 622. Arms Control (4)

PSCI 624. Politics of National Security (4)

PSCI 625. American Foreign Policy (4)

SSCI 695. Directed Graduate Studies (2 or 4) for a maximum of (10)

SOC 606. Sociology of Terrorism (4)

**Culminating Experience**

1. Students must complete A or B below:

A. PSCI 999. Comprehensive Examination (0)

B. PSCI 699. Thesis (2)

Forty-two units of course work and a minimum of four units of thesis must be completed before the degree will be awarded.

**Internship**

Some internships in government service are occasionally available on a competitive basis. Other nonprofit research internships are available.

**Transfer Credit**

A maximum of 10 quarter hours of acceptable postbaccalaureate credit taken at an accredited institution of higher learning may be applied toward the requirements for the M.A. in National Security Studies. Selected Department of Defense courses (War College, Command and Staff College and Squadron Officers School) have been approved for transfer credit. Determination of acceptability of transfer credit requests is made upon receipt of official transcripts by the Office of Records, Registration and Evaluations and upon recommendation of the director of national security studies.



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## CERTIFICATE PROGRAM

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Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. See Page 58 for additional certificate information.

### Certificate in Intelligence Methodology

Prerequisite:

1. Graduate standing.

Certificate Requirements (25 units)

1. PSCI 571. Organization of U.S. Intelligence (1)
2. PSCI 621. Strategic Intelligence (4)
3. GEOG 306. Remote Sensing of Environment (4)
4. Four units chosen from:
  - GEOG 406. Digital Image Processing (4)
  - GEOG 605. Spatial Data Presentation (4)
5. A minimum of twelve units not previously taken, chosen from:
  - GEOG 406. Digital Image Processing (4)
  - GEOG 605. Spatial Data Presentation (4)
  - PSCI 325. American Foreign Policy (4)
  - PSCI 484. National Security Policy (4)
  - PSCI 590. Seminar in International Relations: Political Intelligence (4)
  - PSCI 590. Seminar in International Relations: Evolution of Technology and Warfare (4)
  - PSCI 604. Seminar in International Law (4)
  - PSCI 622. Arms Control (4)
  - SSCI 695. Directed Graduate Studies (2-4) for a maximum of (8) (Research or Intern Project)
  - SOC 606. Sociology of Terrorism (4)

# NATURAL SCIENCES

## College of Natural Sciences

Biological Sciences Building, Room 107  
(909) 537-5300 <http://nsoci.csusb.edu/>

The following courses are offered in support of various graduate degrees offered by the university.

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### COURSE OFFERINGS IN NATURAL SCIENCES (NSCI)

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#### Upper Division

##### 595. Independent Study

Research in special topics including library studies, field and/or laboratory work in one of the natural sciences disciplines under the direction of a faculty member. A maximum of five units in NSCI 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-5 units)

##### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

##### 604. The Nature and History of Science

Brief survey of the development of science from myth through Greek thought to selected topics in contemporary sciences. (4 units)

##### 612. Developing Elementary Science Laboratories

Hands-on laboratory activities which involve the design, implementation and perfection of science demonstrations for the elementary grades. (2 units)

##### 633. Developing Chemistry Laboratories

Hands-on laboratory activities which involve the design, implementation and perfection of science demonstrations for chemistry. (1 unit)

##### 634. Developing Geoscience Laboratories

Hands-on laboratory activities which involve the design and implementation of science demonstrations for the geosciences. (1 unit)

##### 635. Developing Life Science Laboratories

Hands-on laboratory activities which involve the design and implementation of science demonstrations for the life sciences. (1 unit)

##### 636. Developing Physics Laboratories

Hands-on laboratory activities which involve the design and implementation of science demonstrations for physics. (1 unit)

##### 645. Issues in Science, Technology and Society

Seminar in scientific topics of current social interest. (2 units)

##### 694. Master's Project

Prerequisites: advancement to candidacy and consent of the graduate coordinator. (4 units)

##### 695. Directed Graduate Studies

Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the student's committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of Dean of Graduate Studies. (1-6 units)

# NURSING

## Master of Science in Nursing

with concentrations in  
Academic Nursing Education  
Clinical Nurse Specialist in Community/Public Health CNS  
Population-Based Advanced Practice Nursing  
School Nursing

### Department of Nursing

Health and Physical Education Building, Room 215  
(909) 537-5380 <http://nursing.csusb.edu/index.asp>

**FACULTY:** Debra Cohen, Lynne Leach (Chair), Mary Cannon, Cheryl diPretoro, Mikel Hand (MSN Coordinator), Susan McGee-Stehsel, Mary Molle, Phyllis Nix (BSN Coordinator), Donna Rane-Szostak (PDC Coordinator), Ora Robinson, Paula Spencer, Marilyn Stoner, Paul Wielenga

## MASTER OF SCIENCE IN NURSING

### Requirements:

- Academic Nursing Education (53-57 units)**
- Clinical Nurse Specialist in Community/Public Health CNS (59-63 units)**
- Population-based Advanced Practice Nursing (45 units)**
- School Nursing (57-61 units)**

The Department of Nursing offers a graduate program leading to a Master of Science in Nursing with a clinical focus in population-based (advanced public/community health) nursing. The program is designed to educate professional nurses for leadership and service in culturally diverse, pluralistic communities.

Graduates of the MS program will work collaboratively with other health care providers and participate effectively in interdisciplinary models of health care delivery. They are prepared to assume leadership roles in the creation of health care systems which will provide equality of access, high standards of care and caring, and the cost-effective use of resources.

The Academic Education concentration prepares Nursing Faculty to teach in Nursing Programs at both community and four-year universities. This program is also appropriate for advanced practice nurses interested in population health education and health education programming.

The School Nursing concentration meets the California State requirements for the School Nurse Credential. The graduate will concurrently receive the Master of Science in Nursing and the School Nurse Credential. Additional requirements needed for MSN include:

1. NURS 635. Biostatistics for Advanced Practice Nursing
2. Culminating Project, Thesis or Comprehensive Examination (2-6)

The Special Teaching Authorization in Health (STAH) option is available to school nurses who wish to position themselves to become faculty of record for health classes within public school districts. The STAH is not required for the credential and is available to master's students as well as nurses in the community who are already credentialed. The STAH authorizes nurses to provide health education instruction beyond that of periodic guest presentation and allows school administrators to utilize nurses in the capacity of health educators through the provision of direct and regular health instruction. Requirements for the STAH are completion of 14 units of educational pedagogy including a supervised student (practice) teaching experience and passing of the CBEST (California Basic Educational Skills Test). Application for the STAH requires an Exit Interview.

Graduates who complete the Clinical Nurse Specialist (CNS) requirements are prepared for state certification in public/community health nursing and/or school nursing and National Board Certification (AACN) in public/community health nursing.

### Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree in nursing from an accredited program, OR a baccalaureate degree in a discipline related to nursing. Applicants with non-nursing baccalaureate degrees must meet competencies in research, leadership, and community health. Competency may be verified through coursework, testing or certification;
2. A grade point average of 3.0 ("B") in the last 60 semester (90 quarter) units attempted;
3. Current licensure to practice nursing in California (RN);
4. Professional and/or academic competence in nursing attested through three personal recommendations;
5. Successful completion of an upper division undergraduate statistics course;
6. Completion of NURS 601. Preparation for MSN Learning with Technology;
7. Completion of the graduate entrance writing requirement.

### Department Regulations

1. MSN students must carry malpractice insurance in the amount of not less than \$1,000,000 per occurrence and \$3,000,000 per year or more in order to be admitted to clinical courses;
  2. Prior to the first clinical course and yearly thereafter, students must submit a medical report of a recent physical examination, including tuberculosis skin testing, indicating that they are able to engage in activities required to meet the expectations of the program. Exams are available through the Student Health Center for a fee. Immunizations are required. Contact the Department of Nursing for more information;
  3. Students must have current Health Insurance. See Department for instructions;
  4. Students must have a current background check prior to their clinical experience. See Department for instructions;
  5. Students must have access to insured transportation for their clinical experience;
  6. A current Cardiopulmonary Resuscitation card, American Heart Association (AHA) Health Care Provider.
- Students pursuing the School Nurse Credential must also meet the following requirements:
7. A current First Aid card;
  8. An audiometry course (such as HSCI 374).

### Recommendation for the School Nurse Credential

In order to be recommended for a credential, the student must have:

1. Completed all prescribed coursework with a grade point average of 3.0 ("B") or better;
2. A current First Aid card and current Cardiopulmonary Resuscitation card.

### Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Completed at least 30 quarter units of course work with a minimum grade point average of 3.0 ("B");
3. Been accepted by a major advisor for the Department of Nursing who will also accept chairing the student's project/thesis committee;
4. Filed an approved program for completion of the graduate degree. This program must be prepared in consultation with the major advisor and approved by the Program Coordinator and the Dean of Graduate Studies;

5. Demonstrated professional competence and integrity in academic and clinical practice settings.

### Requirements for Graduation

In addition to the general requirements of the university:

1. Advancement to candidacy for the MS degree in nursing;
2. A minimum of 45-67 quarter units of designated courses depending on the concentration(s) selected, as approved on the petition for advancement to candidacy;
3. A grade point average of at least 3.0 ("B") in all graduate course work fulfilling the requirements for the M.S. in Nursing, and grades of "C" (2.0) or better in all elective courses;
4. Choose A, B or C below as required by the concentration:
  - A. Completion and presentation of an acceptable clinical project;
  - B. Completion and defense of an acceptable thesis;
  - C. Completion of NURS 999. Comprehensive Examination and NURS 690. Preparation for Comprehensive Examination.

The written comprehensive examination is designed to test the student's knowledge of the field of advanced community health nursing practice. Students may enroll in the examination no earlier than the last quarter in which coursework is taken and must be advanced to candidacy one quarter before taking the comprehensive examination. The student must complete a graduation check with the Office of Records, Registration and Evaluations before permission to take the examination can be granted. Students who do not receive a passing score may petition the MSN Graduate Committee to retake the exam within one year. After an exam failure, the candidate and advisor will discuss actions necessary for remediation of shortcomings. For more information related to the comprehensive examination process and scheduling contact an MSN program faculty.

### Degree Requirements (45-67 units)

Core Courses (39 units)

1. NURS 600. Population Health Assessment (6)
2. NURS 610. Program Planning and Evaluation (6)
3. NURS 620. Health Policy Leadership (6)
4. NURS 630. Advanced Nursing Roles (3)
5. NURS 635. Biostatistics for Advanced Practice Nursing (4)
6. NURS 645. Research for Advanced Practice Nursing (4)
7. NURS 655. Theoretical Foundations for Advanced Practice Nursing (4)
8. NURS 688. Advanced Role Practicum (2)
9. HSCI 617. Epidemiology (4)

Choose one of the following concentrations:

#### Academic Nursing Education (14-18 units)

1. NURS 658. Nursing Education: Curriculum and Instruction (4)
2. NURS 659. Assessment and Evaluation (4)
3. NURS 660. Nursing Education: Technology in Nursing Education (4)
4. One of the following culminating sequences:
  - a. Clinical Project  
NURS 697. Clinical Project in Nursing (6)
  - b. Thesis Research  
NURS 699. Thesis Research in Nursing (6)
  - c. Comprehensive Examination
    1. NURS 690. Preparation for Comprehensive Examination (2)
    2. NURS 999. Comprehensive Examination (0)

#### Clinical Nurse Specialist in Community/Public Health CNS (20-24 units)

1. NURS 681. Clinical Nurse Specialist Internship I (3)
2. NURS 682. Clinical Nurse Specialist Internship II (3)

3. Twelve units of 500 or 600 level courses chosen in consultation with the graduate advisor and approved by the MSN coordinator.
4. One of the following culminating sequences:
  - a. Clinical Project  
NURS 697. Clinical Project in Nursing (6)
  - b. Thesis Research  
NURS 699. Thesis Research in Nursing (6)
  - c. Comprehensive Examination
    1. NURS 690. Preparation for Comprehensive Examination (2)
    2. NURS 999. Comprehensive Examination (0)

#### Population-based Advanced Practice Nursing (6 units)

1. The following culminating sequence:
  - NURS 690. Preparation for Comprehensive Examination (2)
  - NURS 999. Comprehensive Examination (0)
2. Four units of 500- or 600- level Nursing elective chosen in consultation with the graduate advisor and approved by the MSN program coordinator.

#### School Nursing (18-22 units)

Includes 47 units of the School Nurse Credential

1. NURS 502. Advanced Physical/Health Assessment of Children and Adolescents (4)
2. NURS 503. Principles of School Nursing Practice (4)
3. NURS 658. Nursing Education: Curriculum and Instruction (4)
4. ESPE 530. Psychology and Education of Exceptional Individuals (4)
5. One of the following culminating sequences:
  - a. Clinical Project  
NURS 697. Clinical Project in Nursing (6)
  - b. Thesis Research  
NURS 699. Thesis Research in Nursing (6)
  - c. Comprehensive Examination
    1. NURS 690. Preparation for Comprehensive Examination (2)
    2. NURS 999. Comprehensive Examination (0)

Special Teaching Authorization in Health (STAH)

1. NURS 659. Assessment and Evaluation (4)
  2. NURS 660. Nursing Education: Technology in Nursing Education (4)
  3. NURS 681. Clinical Nurse Specialist Internship I (3)
  4. NURS 682. Clinical Nurse Specialist Internship II (3)
- Students in any MSN concentration are eligible to complete the Clinical Nurse Specialist.

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## COURSE OFFERINGS IN NURSING (NURS)

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### Upper Division

#### 500. Advanced Topics in Nursing

Selected advanced nursing topics with specific focus within relatively narrow content areas. May be repeated for credit as topics change. Prerequisite: upper-division standing or consent of instructor. (4 units)

#### 502. Advanced Physical/Health Assessment of Children and Adolescents

Seminar presents techniques related to physical and health assessment, in the school or community setting, including vision, scoliosis, and dental screenings. Emphasis is on the common morbidities and mortalities of these age groups and the interrelationship of the physical, emotional, and socioeconomic causes of health problems and illnesses. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: consent of department. (4 units)



**503. Principles of School Nursing Practice**

Role of the school nurse in relation to current accepted practice in school health programs as pertaining to the health needs of school children and their communities. Prerequisite: consent of department. (4 units)

**504. School Nursing Internship**

Supervised practice in public school nursing working with credentialed school nurses at the elementary and secondary level. Course taken at the completion of the program. Graded credit/no credit. Prerequisite: consent of department. (4 units)

**550. Informatics for Advanced Practice Nursing**

The nature and functions of nursing informatics to support advanced practice nursing and the delivery of care to communities. Prerequisite: consent of department. (4 units)

**595. Independent Study**

Research conducted under the direction of a faculty member. A total of six units in NURS 595 may be applied toward graduation. Prerequisites: NURS 422, senior standing, a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (1-6 units)

**597. Issues and Trends in Advanced Practice Nursing**

Examines major nursing issues, health care trends, health policies and their impact upon communities and aggregate populations from the perspective of advanced practice nursing. Explores issues such as allocation, poverty, homelessness, violence, substance abuse and changing disease patterns in relation to health care reform and the current social or political environment. Formerly NSCI 597. Prerequisite: graduate standing or consent of department. (4 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**600. Population Health Assessment**

Examines the health of communities and the process of assessment, including environmental health. Analysis of theoretical frameworks, assessment models, health care delivery systems, and special populations as they relate to current health issues. Three hours seminar and nine hours laboratory (90 clinical hours). Materials fee required. Prerequisite: classified graduate standing in MSN program and current RN licensure and consent of the department. (6 units)

**601. Preparation for MSN Learning with Technology**

Introduces returning students to methods of effective learning. Methods will include learning skills in a traditional classroom, and virtual instructional methods. Lecture, computer and web based activities. Graded credit/no credit. Prerequisite: consent of department. (1 unit)

**610. Program Planning and Evaluation**

Program planning, implementation and evaluation for effective advanced practice in public health nursing to improve health and meet health care needs of populations. Includes fiscal management and grant writing. Three hours seminar and nine hours laboratory (90 clinical hours). Materials fee required. Prerequisites: NURS 600, current RN licensure and consent of department. (6 units)

**620. Health Policy Leadership**

Social, ethical, political, economic, and ideological forces that shape health policy and law. Informed participation in interdisciplinary policy-making processes and the impact of health policy on professional practice. Develops leadership skills to champion solutions for health. Three hours seminar and nine hours laboratory (90 clinical hours). Materials fee required. Prerequisites: NURS 610, current RN licensure and consent of department. (6 units)

**630. Advanced Nursing Roles**

Considers the advanced nursing component roles of: expert clinical nursing practice, education, research, consultation and clinical leadership to study the health of populations within diverse settings. Disease prevention/health promotion topics include nutrition, addictive substances/behaviors, and strategies such as cultural competence and health education. Three hours seminar. Prerequisites: current RN licensure and consent of department. (3 units)

**635. Biostatistics for Advanced Practice Nursing**

Statistical knowledge and tools for advanced practice nursing including the basic concepts of biostatistics, quantitative methodology in epidemiology, clinical applications for evidence based practice, and statistical utility for decision making. Introduction to statistical analysis software; the process of instrument development, validity and reliability assessment, and pilot testing; decision theory; the analysis and evaluation of the methods, results and discussion sections of a research report. Formerly a topic under NURS 500. Prerequisite: consent of department. (4 units)

**645. Research for Advanced Practice Nursing**

Overview of the research process, the composition of a literature review, ethical issues, research design, and data evaluation. Meta-analyses, odds ratio, and risk ratio methods are applied to advanced practice with populations. Formerly NURS 625. Prerequisite: consent of department. (4 units)

**654. Transcultural Health Care for Advanced Practice Nursing**

Overview of assessment, planning, implementation and evaluation strategies for disease prevention and health promotion in cultural communities considering the specific behaviors and views unique to cultural populations which directly impact health. Specific cultural health related behaviors from populations represented within the United States are examined. Formerly a topic under NURS 500. Prerequisite: consent of department. (4 units)

**655. Theoretical Foundations for Advanced Practice Nursing**

Examines nursing knowledge in the context of the history, philosophical perspectives, major influences, and current controversies. Theoretical foundations of nursing as applied to select community issues emphasizing intervention development and outcome evaluation. Formerly NURS 615. Prerequisite: classified standing in the MSN program or consent of department. (4 units)

**656. Management Skills for Advanced Practice Nursing**

Overview of management concepts and skills necessary for advanced practice nursing in the community. Focus is on effective management of health care systems, programs and resources. Formerly a topic under NURS 500. Prerequisite: consent of department. (4 units)

**657. Advanced Practice Nursing Case Management**

Foundations of case management for advanced practice nursing. Health care delivery system, managed care, case management concepts, and the case management process are discussed with emphasis on legal and ethical issues, leadership skills, and case management tools and technology. Formerly NURS 640. Prerequisite: consent of department. (4 units)

**658. Nursing Education: Curriculum and Instruction**

Teaching-learning theory as a basis for curricular development. Advanced practice nursing education in academic and community settings focusing on program and curriculum development and instructional methodology. Formerly NURS 650. Prerequisite: consent of department. (4 units)

**659. Assessment and Evaluation in Nursing Education**

Teaching-learning theory as a basis for assessment and evaluation of learner outcomes. Accreditation standards discussed and analyzed. Participants develop an evaluation plan and strategies in preparation for the role of educator in an educational institution or health care setting. Focus is on higher education or K-12 depending on concentration. Four hours seminar. Prerequisites: NURS 658 and consent of department. (4 units)

**660. Instructional Technology in Nursing Education**

Computer and other instructional technologies supporting the teaching learning process. Includes principles of distance learning, use of the internet, and how to integrate computer technologies into the teaching-learning process. Focus is on higher education or K-12 depending on concentration. Seminar, computer and web based activities. Four hour seminar. Prerequisites: NURS 658 and consent of department. (4 units)

**681. Clinical Nurse Specialist Internship I**

Clinical application of advanced nursing practice in community/public health nursing in diverse settings allowing for a population-focused practice. Formerly NURS 680. Graded credit/no credit. Prerequisites: NURS 600 or 630, consent of the department, and current RN licensure. (3 units)

**682. Clinical Nurse Specialist Internship II**

Clinical application of advanced nursing practice in community/public health nursing in diverse settings allowing for a population-focused practice. Formerly NURS 680. Graded credit/no credit. Prerequisites: NURS 600, 610 and 630, consent of department and current RN licensure. May be taken concurrently with NURS 680. (3 units)

**688. Advanced Role Practicum**

Application of advanced nursing concepts in the core and concentration, and identification of researchable problems. Activities will demonstrate mastery of the advanced nursing component areas: expert clinical nursing practice, education, research, consultation, and clinical leadership. Participants must have access to a clinical site and a preceptor in their concentration. 60 hours clinical practicum. Graded credit/no credit. Prerequisites: NURS 600, 610, and 630 and consent of department. May be taken concurrently with NURS 620. (2 units)

**690. Preparation for Comprehensive Examination**

Independent study conducted under the direction of a faculty member to prepare for comprehensive examinations in the Master of Science in Nursing. Prerequisites: advancement to candidacy. Corequisite: NURS 999. (2 units)

**697. Clinical Project in Nursing**

Independent clinical project conducted under the direction of a major program faculty advisor. Prerequisites: advancement to candidacy and NURS 645. (6 units)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

**699. Thesis Research in Nursing**

Independent graduate research conducted under the direction of a major program faculty advisor. Prerequisites: advancement to candidacy and NURS 625. (6 units)

**999. Comprehensive Examination**

An integrative, written examination covering course work required for the major. The comprehensive exam committee for each candidate will consist of the student's advisor and one other faculty member teaching in the program. Candidates failing must retake the exam within one year, and must consult with their advisor to discuss actions necessary for remediation of shortcomings. Graded credit/no credit. Prerequisite: consent of department. (0 units)

# POLITICAL SCIENCE

## Department of Political Science

Social and Behavioral Sciences Building, Room 112  
(909) 537-5535 <http://polisci.csbs.csusb.edu/>

The following courses are offered in support of graduate degree programs offered at this university.

### COURSE OFFERINGS IN POLITICAL SCIENCE (PSCI)

#### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

##### 600. Theory and History of Strategy

Examination of the literature on strategy, from ancient to modern times and from various cultures. Both theoretical and practical methods will be covered. Prerequisite: PSCI 484 or equivalent. (4 units)

##### 601. Strategic Systems and Strategic Thought

Evolution of strategic thought, policy, doctrine and force structure relative to national security objectives. Prerequisite: PSCI 484 or equivalent. (4 units)

##### 602. International Security

Seminar on various conceptions of international security, with emphasis on current crises in international politics. Prerequisite: PSCI 484 or equivalent. (4 units)

##### 604. Seminar in International Law

Survey of the literature and a study of the Law of the Sea, Aerospace Law, and International Regulation of the Use of Force. (4 units)

##### 605. Topics in Strategy

Intensive study of a specific phase or area of defense strategy developed by the instructor. May be repeated once for credit, as topics change, with consent of student's advisor. (4 units)

##### 609. International Relations Theory

An examination of the theoretical literature on international relations, including issues of war and peace, foreign relations, and international security. (4 units)

##### 610. Proseminar in Political Science

Survey of the concepts and ideas that political scientists study, how they approach the study of political phenomena, and what methods they employ in their analysis. The seminar will include discussion of the relationships of the discipline to other social science disciplines and the unique contributions political science has made to knowledge in general and in the social sciences. Prerequisite: consent of instructor. (4 units)

##### 611. Regional Security of Eurasia

Strategic factors in Russia and other post-Soviet states, with emphasis on the relations between the military and society. (4 units)

##### 613. Middle East Security

Middle East security, including its political, military, ideological, and economic components. (4 units)

##### 621. Strategic Intelligence

The development and practice of national intelligence estimates and reporting. Formerly a topic under PSCI 605. Prerequisite: PSCI 571 or consent of instructor. (4 units)

##### 622. Arms Control

The background, history, development, and theory of arms control. (4 units)

##### 624. Politics of National Security

Examination of the influence of American political institutions and processes on U.S. national security strategy. Formerly a topic under PSCI 605. (4 units)

##### 625. American Foreign Policy

Seminar on contemporary American foreign policy. May be repeated once as topics change. (4 units)

##### 698. Continuous Enrollment for Graduate Candidacy Standing

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

##### 699. Thesis

Prerequisites: completion of coursework and consent of thesis committee. (2 units)

##### 999. Comprehensive Examination

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program and in good academic standing. (0 units)

# PSYCHOLOGY

## Master of Arts in Psychology

with concentrations in:  
General-Experimental Psychology  
Child Development

## Master of Science in Psychology

with concentrations in:  
Clinical Counseling  
Industrial/Organizational

## Department of Psychology

Social and Behavioral Sciences Building, Room 425  
(909) 537-5570 <http://psychology.csusb.edu/>

**FACULTY:** Mark Agars, Allen Butt, Sybil Carrere, David Chavez, Yuchin Chien, John Clapper, Gloria Cowan (Emeritus), Robert Cupp, Robert Cramer, Cynthia Crawford, Kristy Dean, Janelle Gilbert (Graduate Coordinator, MSI/O), Chuck Hoffman, Azadeh Jebelli, Laura Kamptner, James Kaufman, Hideya Koshino, Janet Kottke, Michael Lewin, Faith McClure (Graduate Coordinator, MSCC), Sanders McDougall, Fred Newton, Jean Peacock, Jason Reimer, Robert Ricco (Graduate Coordinator, MAGE), David Riefer, Matt Riggs, Luis Rivera, Christy Scher, Kenneth Shultz, Geraldine Stahly, Edward Teyber, Jodie Ullman, Sharon Ward (Graduate Coordinator, MACD), Amanda Wilcox-Herzog, Eugene Wong, Joanna Worthley (Chair)

## MASTER OF ARTS IN PSYCHOLOGY

### Requirements (50-51 units)

The objective of the Master of Arts in Psychology is to provide a program of study with courses selected from a variety of basic areas in psychology. Students will select one of the following concentrations as their area of specialization:

1. General-Experimental Psychology Concentration  
Provides a broad background suitable for entry into doctoral programs in any area of psychology (e.g., social, cognitive, developmental, neuroscience, or clinical); or for employment requiring a Master of Arts degree in Psychology.
2. Child Development Concentration  
Provides an in-depth background in child growth and development, suitable for students planning on pursuing (or currently in) careers dealing with children or families; or for pursuing a doctoral degree.

Although these concentrations differ in emphasis, both prepare students for doctoral programs and career objectives such as teaching in a community college.

### Admission to the M.A. Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree with a major in psychology; or with any other undergraduate major;
  - A. Score at least at the 50th percentile on the GRE advanced test in psychology;  
OR
  - B. Satisfy the graduate admissions committee of the Department of Psychology that a satisfactory course of study has been pursued in preparation for graduate study in psychology;
2. A cumulative undergraduate grade point average of at least 3.0 ("B") overall and in the major;
3. Submission of scores for the verbal and quantitative portions of the Graduate Record Examination (for the General-Experimental Psychology program only);

4. Completion of the graduate entrance writing requirement;
5. A brief statement describing preparation for graduate study, the goals of graduate study and professional aspirations, to be submitted to the department;
6. Three letters of recommendation, with at least two from former professors. Letters should come directly from the writers or be included in a placement file. (It is the applicant's responsibility to determine if letters have been received.);
7. Satisfaction of the prerequisites of one of the following areas of concentration:
  - A. General-Experimental Psychology concentration, the following prerequisites or their equivalent:  
PSYC 100. Introduction to Psychology  
PSYC 210. Psychological Statistics  
PSYC 311. Introduction to Experimental Psychology
  - B. Child Development concentration, the following prerequisites or their equivalent:  
PSYC 100. Introduction to Psychology  
A course in child development.

Students who meet the general requirements of the university for admission to graduate study, but who do not meet the Psychology Department's specific requirements for admission to classified status or who wish to take course work prior to spring quarter consideration of their application for classified status, may be admitted to the university in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, with consent of the Psychology Department, in selected graduate courses.

### Advancement to Candidacy

At the end of the spring quarter, all first year graduate students will be evaluated to determine whether or not they will be advanced to candidacy for the Master of Arts degree. Students will be reevaluated each quarter until they are either advanced to candidacy or declassified.

To be formally advanced to candidacy, a student must, to the satisfaction of the chair of the department, have:

1. Achieved classified status;
2. Successfully completed 16 units of course work in the program and maintained a 3.0 ("B") grade point average in the course work;
3. Selected a graduate advisor to supervise the course of study;
4. Satisfied the ethical requirements of the American Psychological Association;
5. Filed an approved graduate program which must have the approval of the student's advisor, the department chair or the graduate program director and the Dean of Graduate Studies;
6. Demonstrated successful research participation with a faculty advisor. Success will be determined by a passing grade in PSYC 611B (2 units). PSYC 611C (3 units) will be reserved for the completed thesis proposal after advancement. This requirement can be fulfilled in one of three ways:
  - A. Student will be required to become familiar with the literature in a research area which will be related to their thesis research. This could take the form of a partial literature review, an annotated bibliography and/or a presentation of the literature of interest to faculty/student groups.
  - B. Student will be required to become familiar with several related research literatures if their area of interest is currently undeveloped or if specialized knowledge of particular methodologies requires further investigation for the development of a thesis project.
  - C. Student will be required to become skilled in certain specialized research methods which will pertain to their abilities to gather data for the thesis. Examples of such activities could include gathering pilot data to acquire interview skills, knowledge of survey procedures, assessment skills, advanced statistical skills, understanding of content analysis, skills to



work with a special population, or advanced physiological measurement skills.

### Requirements for Graduation

1. A minimum of 51 quarter units for the General-Experimental or 50-51 units for the Child Development concentration of approved graduate-level work, with 38 completed in residence at this university;
2. A grade point average of at least 3.0 ("B") in all courses taken to satisfy the Master of Arts degree, grades of "B-" (2.7) or better in each required course in the program, and grades of "C" (2.0) or better in each elective course;
3. Successful completion of the course work listed below, including a culminating experience consisting of the completion and defense of an original master's thesis;
4. The graduation writing requirement is met upon successful completion of the thesis;
5. Any additional general requirements not cited above and listed on Page 350.

Classified graduate students in the Master of Arts program must complete their degree requirements within five years of admission to that program. Students in classified status who fail to register for at least one course in the Psychology M.A. program each quarter will automatically be declassified. PSYC 698 (Continuous Enrollment for Graduate Candidacy Standing) must be taken if another course is not taken during a given quarter.

### Degree Requirements (50-51 units)

#### General-Experimental Psychology Concentration (51 units)

1. PSYC 611. Advanced Independent Study (2-5) for a total of (5)
2. PSYC 640. Advanced Methods in Psychological Research (4)
3. PSYC 641. Analysis of Variance (5)
4. PSYC 642. Regression and Nonparametric Statistics (4)
5. PSYC 650. Advanced Cognitive Psychology (4)
6. PSYC 652. Advanced Learning and Motivation (4)
7. PSYC 654. Advanced Life-Span Developmental Psychology (4)
8. PSYC 656. Advanced Biological Psychology (4)
9. PSYC 658. Advanced Personality and Social Psychology (4)
10. PSYC 699. Thesis (5)
11. Eight units of PSYC 500- or 600-level courses, excluding PSYC 595, 611, 612 and 689.

#### Child Development Concentration (50-51 units)

##### Comprehensive Examination Option

1. HD 690. Families and Parenting (4)
2. PSYC 612. Directed Readings (5)
3. PSYC 640. Advanced Methods in Psychological Research (4)
4. PSYC 645. Advanced Infancy and Early Childhood Development (4)
5. PSYC 646. Advanced Middle Childhood and Adolescent Development (4)
6. PSYC 651. Advanced Cognitive Development (4)
7. PSYC 654. Advanced Life-Span Developmental Psychology (4)
8. PSYC 664. Applied Life-Span Developmental Psychology (4)
9. PSYC 689. Externship in Applied Psychology (5)
10. PSYC 999B. Comprehensive Examination: Child Development (0)
11. Twelve units of 500- or 600-level coursework from HD, PSYC, education, or other relevant field chosen in consultation with a faculty advisor.

### Project Option

1. HD 690. Families and Parenting (4)
2. PSYC 611. Advanced Independent Study (5)
3. PSYC 640. Advanced Methods in Psychological Research (4)
4. PSYC 645. Advanced Infancy and Early Childhood Development (4)
5. PSYC 646. Advanced Middle Childhood and Adolescent Development (4)
6. PSYC 651. Advanced Cognitive Development (4)
7. PSYC 654. Advanced Life-Span Developmental Psychology (4)
8. PSYC 664. Applied Life-Span Developmental Psychology (4)
9. Twelve units of 500- or 600-level coursework from HD, PSYC, education, or other relevant field chosen in consultation with a faculty advisor.
10. HD 695. Graduate Project (5)

### Thesis Option

1. HD 690. Families and Parenting (4)
2. PSYC 611. Advanced Independent Study (5)
3. PSYC 640. Advanced Methods in Psychological Research (4)
4. PSYC 641. Analysis of Variance (5)
5. PSYC 642. Regression/Nonparametric Statistics (4)
6. PSYC 645. Advanced Infancy and Early Childhood Development (4)
7. PSYC 646. Advanced Middle Childhood and Adolescent Development (4)
8. PSYC 651. Advanced Cognitive Development (4)
9. PSYC 654. Advanced Life-Span Developmental Psychology (4)
10. PSYC 664. Applied Life-Span Developmental Psychology (4)
11. PSYC 699. Thesis (5)
12. Four units of 500- or 600-level coursework from HD, PSYC, education, or other relevant field chosen in consultation with a faculty advisor.

## MASTER OF SCIENCE IN PSYCHOLOGY

### Requirements

#### Clinical Counseling

##### Thesis Concentration (82 units)

##### Comprehensive Examination

##### Concentration (78 units)

#### Industrial/Organizational

##### Thesis Concentration (75 units)

The areas of concentration for the Master of Science degree program are clinical/counseling psychology or industrial/organizational psychology.

The principal objective of the clinical/counseling program is to provide students with practical skills in counseling, through supervised training and experience, and an understanding of relevant subject matter knowledge and research methodology. The program offers required and elective course work designed to meet the educational requirements for licensure as a Marriage and Family Therapist (MFT) as outlined by the California Board of Behavioral Sciences. The program culminates with a thesis or comprehensive examination and an internship experience.

The principal objective of the industrial/organizational program is to provide students with the skills to apply the principles and methods of psychology to organizations, public and private, and to settings

where people are engaged in work. To be successful in this application, the graduate must have developed knowledge and appreciation of psychological theory and research as they apply to organizations and people at work, and mastery of the measurement and research technologies which are commonly used in the discipline.

### Admission to the M.S. Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A minimum cumulative undergraduate grade point average of 2.5;
2. A minimum cumulative undergraduate grade point average in the major of 3.0 ("B");
3. A baccalaureate degree in psychology;  
or  
one of the following:
  - A. A baccalaureate degree in a major other than psychology and score at or above the 50th percentile on the Graduate Record Examination (advanced test in psychology);
  - B. A baccalaureate degree in a major other than psychology, including a course of study judged, by the Psychology Department graduate admissions committee, to be satisfactory preparation for graduate study in psychology;
4. Completion of the graduate entrance writing requirement;
5. Submission to the department graduate admissions committee of a brief statement (one or two typewritten pages) of the student's preparation for graduate study, goals in a graduate training program and professional aspirations following receipt of the master's degree;
6. Submission of three letters of recommendation from people who are in a position to make relevant comments on the student's likely success in a graduate psychology program. At least two of these letters should be from former professors who are familiar with the student's scholarly activities.

For students seeking admission in the Industrial/Organizational Psychology Option, the following also are required for classified status:

1. Completion of the following prerequisite courses or their equivalent:
  - a. PSYC 100. Introduction to Psychology
  - b. PSYC 210. Psychological Statistics  
or  
SCM 210. Applied Business Statistics
  - c. PSYC 311. Introduction to Experimental PsychologyThe following courses (or equivalent) are recommended:
  - a. PSYC 302. Management and Organizational Behavior  
or  
MGMT 302. Management and Organizational Behavior
  - b. PSYC 355. Industrial Psychology  
or  
MGMT 455. Human Resources Management
  - c. PSYC 377. Tests and Measurements

For students seeking admission in the Counseling Option, the following also are required for classified status:

1. Completion of the following prerequisite courses or their equivalent:
  - a. PSYC 100. Introduction to Psychology
  - b. PSYC 210. Psychological Statistics
  - c. PSYC 311. Introduction to Experimental Psychology
  - d. PSYC 377. Tests and Measurements
  - e. PSYC 385. Personality  
or  
PSYC 386. Introduction to Psychotherapy
  - f. PSYC 390. Abnormal Psychology

Students who meet the general requirements of the university for admission to graduate study, but who do not meet the Psychology

Department's specific requirements for admission to classified status or who wish to take course work prior to winter quarter consideration of their application for classified status, may be admitted to the university in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, when space is available, in selected graduate courses, with the instructor's approval.

### Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified status;
2. Secured a graduate advisor to supervise the course of study;
3. Completed, with the approval of the student's advisor, at least 16 quarter units of graduate course work at this university, and achieved a minimum grade point average of 3.0 ("B") in those courses;
4. Filed an approved Advancement to Candidacy form which must have the approval of the student's advisor, the department chair or chair of the graduate program committee and the Dean of Graduate Studies.

### Requirements for Graduation

#### Clinical/Counseling Option:

1. Completed at least 78-82 quarter units (depending on the culminating option selected in item 2 below) of course work in an approved graduate program with a grade point average of at least 3.0 ("B") and grades of "C" (2.0) or better in all courses in the program;
2. One of the following:
  - A. Completed and defended an original thesis. Students selecting the thesis option take five units of PSYC 611 in preparation for the thesis.  
OR
  - B. Successful completion of the comprehensive examination. Students selecting the examination option take five units of PSYC 612 in preparation for the examination.
3. Received the approval of the student's graduate committee;
4. The graduation writing requirement is met upon successful completion of the thesis or comprehensive examination;
5. Any additional general requirements not cited above and listed on Page 350.

The comprehensive examination is designed to be integrative in nature and is offered during the spring quarter. Students who do not receive a passing grade may elect to:

- A. Repeat the examination, one additional time only  
OR
- B. Complete PSYC 699. Thesis.

Complete details regarding the examination option are available from the Psychology Department.

#### Industrial/Organizational Option:

1. Completed a minimum of 75 quarter units of approved graduate level work with at least 60 units completed in residence at this university with a grade point average of at least 3.0 ("B") and grades of "C" (2.0) or better in all courses in the program;
2. Completed and defended an original master's thesis (a two course sequence, PSYC 611 and 699);
3. The graduate writing requirement is met upon successful completion of the thesis.

Classified graduate students in the Master of Science programs must complete their degree requirements within five years of admission to the program. Students with classified status who fail to register for at least one course in the Psychology M.S. program each quarter will automatically be declassified.

**Degree Requirements****Clinical/Counseling****Thesis Option (82 units)**

1. PSYC 611. Advanced Independent Study (2-5) for a total of (5)
2. PSYC 633. Professional Ethics and Law (4)
3. PSYC 636. Cross-Cultural Counseling (4)
4. PSYC 638. Substance Abuse: Detection, Assessment and Treatment (4)
5. PSYC 640. Advanced Methods in Psychological Research (4)
6. PSYC 641. Analysis of Variance (5)
7. PSYC 654. Advanced Life-Span Developmental Psychology (4)
8. PSYC 665. Psychopathology (4)
9. PSYC 667. Family Processes (4)
10. PSYC 671. Marriage and Family Therapy Skills I (5)
11. PSYC 672. Marriage and Family Therapy Skills II (5)
12. PSYC 673. Marriage and Family Therapy Skills III (5)
13. PSYC 682. Clinical Assessment (4)
14. PSYC 687A. Marriage and Family Therapy Practicum I (2)
15. PSYC 687B. Marriage and Family Therapy Practicum II (2)
16. PSYC 687C. Marriage and Family Therapy Practicum III (2)
17. PSYC 697A. Advanced Practicum in Counseling Psychology (4)
18. PSYC 697B. Advanced Practicum in Counseling Psychology (4)
19. PSYC 697C. Advanced Practicum in Counseling Psychology (4)
20. PSYC 699. Thesis (5)
21. Two units of electives to be chosen from 500- or 600-level courses, excluding PSYC 575, 595, 611 and 612.

**Notes:** \*Up to eight units of PSYC 697A, 697B and 697C may be waived for appropriate work experience.  
 \*PSYC 679 is required for those students interested in licensure as a marriage and family therapist.  
 \*PSYC 616 and 691 or comparable workshops are required for those students interested in licensure as a marriage and family therapist.

**Comprehensive Examination Option (78 units)**

1. PSYC 612. Directed Readings (2-5) for a total of (5)
2. PSYC 633. Professional Ethics and Law (4)
3. PSYC 636. Cross-Cultural Counseling (4)
4. PSYC 638. Substance Abuse: Detection, Assessment and Treatment (4)
5. PSYC 640. Advanced Methods in Psychological Research (4)
6. PSYC 654. Advanced Life-Span Developmental Psychology (4)
7. PSYC 665. Psychopathology (4)
8. PSYC 667. Family Processes (4)
9. PSYC 671. Marriage and Family Therapy Skills I (5)
10. PSYC 672. Marriage and Family Therapy Skills II (5)
11. PSYC 673. Marriage and Family Therapy Skills III (5)
12. PSYC 682. Clinical Assessment (4)
13. PSYC 687A. Marriage and Family Therapy Practicum I (2)
14. PSYC 687B. Marriage and Family Therapy Practicum II (2)
15. PSYC 687C. Marriage and Family Therapy Practicum III (2)
16. PSYC 697A. Advanced Practicum in Counseling Psychology (4)
17. PSYC 697B. Advanced Practicum in Counseling Psychology (4)
18. PSYC 697C. Advanced Practicum in Counseling Psychology (4)

19. Eight units of electives to be chosen from 500- or 600- level courses, excluding PSYC 575, 611 and 612.
20. PSYC 999A. Comprehensive Examination: Clinical Counseling (0)

**Notes:** \*Up to eight units of PSYC 697A, 697B and 697C may be waived for appropriate work experience.  
 \*PSYC 679 is required for those students interested in licensure as a marriage and family therapist.  
 \*PSYC 616 and 691 or comparable workshops are required for those students interested in licensure as a marriage and family therapist.

**Industrial/Organizational****Thesis Option (75 units)**

1. PSYC 581A. Seminar in Industrial/Organizational Psychology: Current Professional Issues (2)
2. PSYC 581B. Seminar in Industrial/Organizational Psychology: Organizational Leadership (2)
3. PSYC 581C. Seminar in Industrial/Organizational Psychology: Processes of Work Groups (2)
4. PSYC 581D. Seminar in Industrial/Organizational Psychology: Training and Executive Development (2)
5. PSYC 601. Performance Assessment (4)
6. PSYC 602. Organizational Development (4)
7. PSYC 603. Personnel Selection and Validation (4)
8. PSYC 604. Work Motivation and Organizational Reward Systems (4)
9. PSYC 611. Advanced Independent Study (2-5) for a total of (5)
10. PSYC 633. Professional Ethics and Law (4)
11. PSYC 640. Advanced Methods in Psychological Research (4)
12. PSYC 641. Analysis of Variance (5)
13. PSYC 642. Regression and Nonparametric Statistics (4)
14. PSYC 643. Multivariate Methods (4)
15. PSYC 644. Applied Psychological Measurement (4)
16. PSYC 675. Practicum in Applied Psychology (4)
17. PSYC 689. Externship in Applied Psychology (2-5) for a total of (4)
18. PSYC 699. Thesis (5)
19. Four units chosen from:
  - PSYC 650. Advanced Cognitive Psychology (4)
  - PSYC 652. Advanced Learning and Motivation (4)
  - PSYC 654. Advanced Life-Span Developmental Psychology (4)
  - PSYC 656. Advanced Biological Psychology (4)
  - PSYC 658. Advanced Personality and Social Psychology (4)
20. A minimum of four units chosen from:
  - ACCT 503. Financial Accounting (4)
  - ECON 503. Economic Analysis (4)
  - FIN 503. Financial Management Concepts (4)

May choose only one of the following two courses:

  - HD 540. Work, Retirement and Leisure (4)
  - PSYC 540. Work, Retirement and Leisure (4)
  - MGMT 601. Organization Theory and Behavior (4)
  - MGMT 641. Managing Human Resources (4)
  - MGMT 642. Communication and Interpersonal Processes (4)
  - MGMT 644. Industrial Relations (4)
  - PSYC 612. Directed Readings (2-5)
  - PSYC 636. Cross-Cultural Counseling (4)
  - PSYC 665. Psychopathology (4)
  - PSYC 679. Theories of Counseling and Psychotherapy (4)



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**COURSE OFFERINGS IN  
PSYCHOLOGY (PSYC)**

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**Upper Division****538. Introduction to Psychopharmacology**

Examination of the basic pharmacological principles of psychoactive drugs. Particular emphasis is placed on neuronal functioning, mechanisms of drug action, and behavioral attitudes. Prerequisites: HD 324, PSYC 324, 333 or 363; or consent of instructor. (4 units)

**540. Work, Retirement and Leisure**

Theory and research on work, retirement and leisure during the adult years. (Also offered as HD 540. Students may not receive credit for both.) Prerequisite: PSYC 100. (4 units)

**575. Internship in Psychology**

Supervised work and study in private or public organizations. May be repeated once for credit. (Only four units of PSYC 575 may be applied to upper-division elective requirements in the psychology major.) Graded credit/no credit. Prerequisites: consent of instructor and department. (4 units)

**581. Seminar in Industrial/Organizational Psychology**

Selected topics in industrial/organizational psychology. M.S. I/O option candidates are required to take all four topics. Same topic may not be repeated for credit. Prerequisites: upper-division or graduate standing and consent of department.

- A. Current Professional Issues (2 units)
- B. Organizational Leadership (2 units)
- C. Processes of Work Groups (2 units)
- D. Training and Executive Development (2 units)

**595. Independent Study**

Special topics involving literature and/or experimental effort. A total of eight units of PSYC 595 may be applied toward graduation, of which a maximum of four units can be applied toward the upper-division requirements in the psychology major. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (2-4 units)

**596. Practicum in Psychology: Peer Advising**

Theory, training, and practice in the basic knowledge, skills, and abilities involved in academic peer advising. One hour seminar, three hours practicum. A total of eight units may be applied toward graduation, of which a maximum of four units can be an upper-division elective in the psychology or human development major. Graded credit/no credit. An application must be submitted during the quarter prior to the quarter student plans to enroll. Prerequisites: consent of instructor and department. (2 units)

**597. Honors Seminar**

Provides an opportunity for students to develop an independent project under faculty supervision. Students will meet as a class to discuss their projects, as well as various advanced topics. Enrollment is limited to students whose formal application for departmental honors is approved. (Also offered as HD 597. Students may not receive credit for both.) Prerequisites: PSYC 311 and consent of department. (4 units)

**598. Honors Project**

Provides an opportunity for students to conduct an independent project under faculty supervision. Enrollment is limited to students whose formal application for departmental honors is approved. May not be used to satisfy the requirements of the psychology major.

- A. I. (Also offered as HD 598A. Students may not receive credit for both.) Prerequisites: PSYC 597 and consent of department. (2 units)
- B. II. (Also offered as HD 598B. Students may not receive credit for both.) Prerequisites: PSYC 598A and consent of department. (2 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**601. Performance Assessment**

Current research and methods of performance appraisal. Topics include the study of job analysis, performance appraisal process and instrumentation, and job evaluation. Prerequisite: classified graduate standing in M.A. or M.S. degree program or consent of department. (4 units)

**602. Organizational Development**

Critical review of current psychological theories and methods of organizational change. Topics include organization processes and interventions at the organizational and group levels. Prerequisite: classified graduate standing in M.A. or M.S. degree program or consent of department. (4 units)

**603. Personnel Selection and Validation**

Principles and methods of personnel selection, including validation strategies and the effects of governmental and legal issues on personnel actions. Prerequisite: classified graduate standing in M.A. or M.S. degree program or consent of department. (4 units)

**604. Work Motivation and Organizational Reward Systems**

Review and critical discussion of major theories and current research of motivation in the workplace, including examination of research on reward and compensation systems, and a review and discussion of their application in work organizations. Prerequisite: classified graduate standing in M.A. or M.S. degree program or consent of department. (4 units)

**609. Graduate Research in Psychology**

Original research in psychology conducted under the direction of a faculty member. Units may not count towards the M.A. and M.S. in Psychology. Graded credit/no credit. Prerequisites: classified standing and consent of instructor. (2-5 units)

**611. Advanced Independent Study**

Advanced research on a specific topic selected by the student with the approval of the student's committee. May be repeated up to two times for a maximum of 15 units credit with approval of the student's committee and the department chair. Only five units are required for the master's degree. Prerequisites: PSYC 640 or 641; advancement to candidacy and consent of department. (2-5 units)

**612. Directed Readings**

Special topics involving supervised readings under the direction of a faculty member. Prerequisites: graduate standing and consent of department. (2-5 units)

**613. Short-term Counseling**

Counseling skills and strategies for short-term therapeutic intervention. Prerequisites: classified standing and consent of department. (4 units)



**614. Couples Counseling**

Theory and practice of counseling with couples. Prerequisites: classified standing and consent of department. (4 units)

**615. Group Counseling**

Theory and practice of group counseling. Prerequisites: classified standing and consent of department. (4 units)

**616. Child and Spousal/Partner Abuse**

Theory and research on the psychological aspects of child and spousal/partner abuse. Detection, assessment and treatment of the abuse. Formerly a topic under PSYC 678. Prerequisite: classified standing and consent of department. (4 units)

**617. Clinical Psychopharmacology**

Theory and application of psychotropic principles for the major DSM psychiatric disorders, including the examination of the effects of the psychotropic medications on experience, behavior and symptoms. (4 units)

**630. Teaching of Psychology**

Instructional methods for teaching of psychology at the college level. Prerequisites: classified graduate status in psychology and consent of department. (2 units)

**633. Professional Ethics and Law**

Ethical and legal considerations involved in counseling practice, including statutory law, legal trends, and ethical behavior in the mental health profession. Prerequisites: classified standing in Psychology M.S. degree program and consent of department. (4 units)

**636. Cross-Cultural Counseling**

Study of how cultural values and ethnic backgrounds influence counseling process and outcome, with focus on counseling with Blacks, Hispanics, Asians, and Native Americans. Prerequisites: classified standing in Psychology M.S. or M.A. degree program and consent of department. (4 units)

**638. Substance Abuse: Detection, Assessment and Treatment**

Assessment and treatment of substance abuse, including alcoholism and other forms of chemical dependency with a focus on etiological factors and relapse prevention. Prerequisites: classified standing in Psychology M.S. or M.A. degree programs and consent of department. (4 units)

**640. Advanced Methods in Psychological Research**

Those aspects of philosophy of science and methods of inquiry as applied to procedures for obtaining and evaluating data as well as issues in experimental design. Prerequisites: classified standing and consent of department. (4 units)

**641. Analysis of Variance**

Review of concepts of statistical inference. Applications of statistical techniques to the design and interpretation of experimental research with an emphasis on Analysis of Variance (ANOVA). Statistical computer packages will be introduced in the laboratory section. Four hours lecture and three hours laboratory. Prerequisites: classified standing and consent of department. (5 units)

**642. Regression and Nonparametric Statistics**

Review of concepts of statistical estimation. Applications of statistical techniques to the design and interpretation of applied correlational

and quasi-experimental research with an emphasis on correlation, regression, and nonparametric techniques. Statistical computer packages will be introduced in the activity section. Three hours lecture and two hours activity. Prerequisites: classified standing and consent of department. (4 units)

**643. Multivariate Methods**

Multivariate models used in psychological research, including multiple regression, discriminant function analysis, factor analysis, canonical analysis, and multiple analysis of variance. Three hours lecture and two hours activity. Prerequisites: PSYC 641 or equivalent, classified standing and consent of department. (4 units)

**644. Applied Psychological Measurement**

Theories, methods, and issues of psychological measurement and assessment. Topical coverage will include test construction, test evaluation, survey development, ethics, and testing in applied settings. Three hours lecture and two hours activity. Prerequisite: classified graduate standing in M.A. or M.S. program or consent of department. (4 units)

**645. Advanced Infancy and Early Childhood Development**

Research and theory relating to prenatal development through age five. Classic theory and current literature concerning development in physical, cognitive, language, social and emotional domains will be examined. Prerequisites: PSYC 654 and classified graduate status. (4 units)

**646. Advanced Middle Childhood and Adolescent Development**

Theoretical and empirical contributions to understanding physical, cognitive, and social-emotional development during the school-age period (6-12) and adolescence (13-18). A survey of empirical findings from both basic and applied research will focus on methods, applications, and interventions relevant to these age groups. Prerequisites: PSYC 654 and classified graduate status. (4 units)

**647. Advanced Adulthood and Aging Development**

Key topics in developmental psychology concerning young, middle aged and older adults. Specialized methodological and measurement concerns will be discussed as well as age-related changes and theoretical/empirically based applications. Prerequisites: PSYC 654 and classified graduate status. (4 units)

**648. Social-Emotional Development**

Research and theories of social and emotional development from birth to adolescence. Emphasis on major facets of social-emotional development. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (4 units)

**650. Advanced Cognitive Psychology**

Research and theories in the psychology of thinking, knowing and remembering. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (4 units)

**651. Advanced Cognitive Development**

Research theory in the development of perception, language, memory, problem solving, reasoning, and other cognitive processes from birth through adolescence. Includes allied disciplines such as the brain sciences and applications to the field of education. Formerly a topic under PSYC 655. Prerequisites: classified standing and consent of department. (4 units)

**652. Advanced Learning and Motivation**

Major theories and research in learning and motivation with emphasis on current issues. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (4 units)

**654. Advanced Life-Span Developmental Psychology**

Examination of the developmental processes, theories, issues and research in life-span developmental psychology. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (4 units)

**655. Advanced Seminar in Developmental Psychology**

Selected current issues and advanced topics of theoretical, research or applied interest in developmental psychology. Prerequisites: classified standing and consent of department. (4 units)

**656. Advanced Biological Psychology**

Study of biological bases of behavior with emphasis on recent research. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (4 units)

**658. Advanced Personality and Social Psychology**

Major theories, methods and empirical findings in personality and social psychology. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (4 units)

**664. Applied Life-Span Developmental Psychology**

Conceptual, methodological and policy related issues in the application of developmental psychology to applied settings. Prerequisites: classified standing and consent of department. (4 units)

**665. Psychopathology**

Major types of human psychopathology, including descriptive symptomatology, etiological factors and treatment considerations. Prerequisites: classified standing in Psychology M.S. degree program and consent of department; or PSYC 390, classified standing in Psychology M.A. degree program and consent of department; or PSYC 390 and consent of department. (4 units)

**667. Family Processes**

Normal and dysfunctional family processes, including analysis of family systems, family communication and strategies for therapeutic intervention. Prerequisites: classified standing and consent of department. (4 units)

**671. Marriage and Family Therapy Skills I**

Foundational skills in counseling, the therapeutic alliance, crisis management and treatment planning. Three hours lecture and six hours laboratory. Prerequisites: classified standing in the Psychology M.S. degree program; concurrent enrollment in PSYC 687A and consent of department. (5 units)

**672. Marriage and Family Therapy Skills II**

Advanced counseling skills used to identify and modify familial, relational, emotional, cognitive and behavioral aspects of individual, couple and family functioning. Three hours lecture and six hours laboratory. Prerequisites: grade of no less than "B" in PSYC 671; concurrent enrollment in PSYC 687B and consent of department. (5 units)

**673. Marriage and Family Therapy Skills III**

Advanced counseling skills used with children, adolescents and their families. Three hours lecture and six hours laboratory. Prerequisites: classified standing in the M.S. in Psychology, grade of no less than "B-" in PSYC 672 and 687B; concurrent enrollment in PSYC 687C and consent of department. (5 units)

**675. Practicum in Applied Psychology**

Training in the application of methods and theories of psychology to the solution of practical problems within organizations. The course will include both a classroom component and practical applications. Prerequisites: classified graduate standing in M.A. or M.S. degree program and consent of department. (4 units)

**678. Advanced Topics in Psychology**

Selected advanced psychology topics with specific focus within relatively narrow content area. Credit may not be received twice for the same topic. Prerequisites: classified standing and consent of department. (2 units)

**679. Theories of Counseling and Psychotherapy**

Comparative analysis of major theories related to current practice of counseling and psychotherapy. Prerequisites: classified standing and consent of department. (4 units)

**680. Advanced Seminar in Psychology**

Selected advanced topics which encompass areas of current theoretical and/or research interest in psychology. Prerequisites: classified standing and consent of department. (4 units)

**682. Clinical Assessment**

Methods of intellectual, vocational and personality assessment with children and adults. May not be taken for credit by students who have received credit for PSYC 683. Prerequisites: classified standing and consent of department. (4 units)

**684. Topics in Counseling Psychology**

Selected topics within counseling psychology. May be repeated for credit as topics change. Prerequisites: classified standing and consent of department. (4 units)

**687. Marriage and Family Therapy Practicum**

Supervised counseling practicum. Graded credit/no credit.

- A. I. Prerequisite: consent of department. Corequisite: concurrent enrollment in PSYC 671. (2 units)
- B. II. Prerequisite: consent of department. Corequisite: concurrent enrollment in PSYC 672. (2 units)
- C. III. Prerequisite: consent of department. Corequisite: concurrent enrollment in PSYC 673. (2 units)

**689. Externship in Applied Psychology**

Supervised field work in a public or private setting for additional training and extension of skills developed in the graduate program. The externship requires approval by a faculty supervisor. A total of five units may apply toward the I/O Option. Graded credit/no credit. Prerequisites: PSYC 640 and consent of department. (2-5 units)

**691. Human Sexuality and Treatment**

Study of human sexuality with emphasis on both healthy sexuality and sexual dysfunction. Clinical interventions to enhance sexual functioning and to treat sexual dysfunctions will be presented. Prerequisites: classified standing and consent of department. (4 units)

### **697. Advanced Practicum in Counseling Psychology**

Supervised counseling field work in private or public mental health agencies. Designed to be taken three times (year long) for maximum of 12 units of credit. Graded credit/no credit. Prerequisites: classified standing in the Psychology M.S. degree program, PSYC 671, 672, 687A, 687B, 687C; a grade of "A" or "B" in PSYC 673; and consent of department.

- A. (4 units)
- B. (4 units)
- C. (4 units)

### **698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

### **699. Thesis**

Independent graduate research conducted under the guidance of the major advisor and resulting in a written thesis. Prerequisites: PSYC 640 and/or 641; PSYC 611; advancement to candidacy and consent of department. (5 units)

### **999. Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program and in good academic standing.

- A. Clinical Counseling (0 units)
- B. Child Development (0 units)

# PUBLIC ADMINISTRATION

## Master of Public Administration

*Accredited by the National Association of Schools of Public Affairs and Administration*

### Department of Public Administration

Jack Brown Hall, Room 456  
(909) 537-5758 <http://www.cbpa.csusb.edu/pa/>

**FACULTY:** David Baker, Chuck Christie (Emeritus), Michael Clarke (Emeritus), Joely De La Torre, Albert K. Karnig, Guenther Kress (Emeritus), Audrey Mathews (Emeritus), Monty Van Wart (Chair and Coordinator), Clifford Young

## MASTER OF PUBLIC ADMINISTRATION

### Requirements (48 units)

The Master of Public Administration (M.P.A.) is a broad program designed to prepare students for a career in administration in the public sector. The major objective is to provide the student with a generalist perspective of public administration, including tools of decision-making, an understanding of the total public administrative system, and a capacity for working within the public environment.

This degree is intended for graduate students and career employees seeking to develop and strengthen academic and professional skills for admission and advancement in the professional practice of public administration.

The program is open to all students, regardless of undergraduate major.

### Admission to the M.P.A. Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A bachelor's degree from an accredited college or university;
2. The following combination of grade point average and test score on the GRE (Graduate Record Examination, Verbal and Quantitative Sections): GRE score plus 400 times grade point average on the last 90 sequential quarter units (60 semester units) of course work (including postbaccalaureate course work) equals or exceeds 2100;
3. Submission of GRE score by the deadline for that term; if test result is not submitted on time, admission status will be unclassified postbaccalaureate;
4. Competence in the following prerequisite courses or their equivalents:
  - A. MGMT 306. Expository Writing for Administration (with a grade of "B" or better)
  - B. MATH 305. Statistics: Hypothesis Testing and Estimation  
or  
SCM 210. Applied Business Statistics
  - C. PA 575. Internship in Public Administration (May be waived dependent upon related work experience.)

Competence in the above prerequisite courses may be demonstrated by:

- A. Formal completion of the course or its equivalent.
- B. Credit by examination.
- C. Waiver based on specialized work experience; must have documentation of work directly related to course to be waived; and must be approved by the department's M.P.A. Graduate Director. (Students requesting waiver of any prerequisite courses must petition the M.P.A. Graduate Director. Inquiries about a challenge examination or substitution for MGMT 306 should be directed to the Dean of Graduate Studies.)

5. Academic motivation and personal qualifications demonstrated through submission of a 200-250 word statement of reasons for wishing to pursue the M.P.A. at California State University, San Bernardino, and personal qualifications that will contribute to successful completion of the program.

No more than 12 units of graduate credit earned in unclassified/conditionally classified standing may be counted toward meeting the requirements for the degree.

Students who meet all entrance requirements except course prerequisites may be admitted to the program in a conditionally classified status until those prerequisite deficiencies are removed, at which time they will be advanced to classified graduate standing in the program. Only fully classified students, however, may enroll in 600-level courses unless they have written consent from the school graduate director.

### Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed at least 20 quarter units of applicable graduate-level course work at the university, with a minimum grade point average of 3.0 ("B");
3. Completed an approved graduate program plan in consultation with an M.P.A. advisor after achieving classified status;
4. Secured the approval of candidacy from the M.P.A. Graduate Director and the Dean of Graduate Studies.

### Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate-level work, consistent with the program plan (with a grade point average of 3.0), with at least 36 units completed at this university;
2. At least 28 quarter units of credit taken after advancement to candidacy for the degree;
3. Successful completion of the required core and elective courses as outlined in the curriculum section;
4. A grade point average of 3.0 ("B") in all course work taken after admission to conditionally classified or classified status, and grades of "C" (2.0) or better in all courses in the program;
5. Successful completion of the graduate research project. The graduate research project is defined as an advanced field study in public administration including both literary and empirical research. This requirement is met by the student's enrollment in PA 695 during the last quarter of work in the program and completion of the project to the satisfaction of the student's advisor.

OR

Successful completion of an integrative comprehensive examination which may be taken any fall, winter or spring term after advancement to candidacy. Students with a grade point average below 3.0 ("B") will not be permitted to take the examination. A "no credit" (NC) designation will be entered on the student's transcript if he/she fails the examination. Students who do not receive a passing grade may elect to:

- A. Repeat the examination, one additional time only, with the written approval of the Department's M.P.A. Graduate Director;

**Note:** With the written approval of the department's M.P.A. Graduate Director, students who do not receive a passing grade after repeating the examination may complete PA 695. Graduate Research Project.

OR

- B. Complete PA 695. Graduate Research Project.  
The examination will be offered fall, winter and spring quarters. Only students who are currently classified, have been advanced to candidacy and are not on probation may take the examination.



6. In addition to satisfactory completion of the graduate entrance writing requirement (MGMT 306. Expository Writing for Administration with a grade of "B" or better), classified MPA students must satisfy the graduation writing requirement by:
  - A. Successful completion of M.P.A. core courses, with a grade point average of "B" or better, which require students to write in a manner appropriate for the discipline; and
  - B. Preparation of an acceptable Graduate Research Project (PA 695);
- OR
- A. Successful completion of M.P.A. core courses, with a grade point average of "B" or better which require students to write in a manner appropriate for the discipline; and
- B. PA 999. Comprehensive Examination (0) which requires acceptable expository writing skills;
7. Any additional general requirements not cited above and listed on Page 350.

### Degree Requirements (48 units)

#### Comprehensive Examination Option

1. PA 603. Research Methods in Administration (4)
  2. PA 611. Public Administration Theory and Practice (4)
  3. PA 615. Public Financial Management (4)
  4. PA 662. Human Resource Management in the Public Sector (4)
  5. PA 663. Public Budgeting and Finance (4)
  6. PA 664. Management of Public Organizations (4)
  7. PA 672. Administrative Regulation (4)
  8. PA 680. Public Policy Analysis (4)
  9. Sixteen units of electives to be chosen from any Department of Public Administration 500- or 600-level courses in consultation with an advisor or from related fields with advance approval from the chair of the Department of Public Administration. No more than twelve units may be taken from 500-level courses.
  10. PA 999. Comprehensive Examination (0)
- Students must successfully complete requirements 1-8 in order to register for the comprehensive examination.

#### Graduate Research Project Option

1. Four units chosen from:
    - MGMT 603. Research Methods in Administration (4)
    - PA 603. Research Methods in Administration (4)
    2. PA 611. Public Administration Theory and Practice (4)
    3. PA 615. Public Financial Management (4)
    4. PA 662. Human Resource Management in the Public Sector (4)
    5. PA 663. Public Budgeting and Finance (4)
    6. PA 664. Management of Public Organizations (4)
    7. PA 672. Administrative Regulation (4)
    8. PA 680. Public Policy Analysis (4)
    9. PA 695. Graduate Research Project (4)
  10. Twelve units of electives to be chosen from any Department of Public Administration 500- or 600-level courses in consultation with an advisor.
- Students may take up to two courses at the 500- or 600-level from related fields with the permission of the College of Business and Public Administration graduate committee. Students who wish to take up to two 300- or 400-level courses must petition the college's director of graduate studies for approval in advance; for each course approved, they will be required to enroll simultaneously in a two-unit independent study course directly related to the course selected. These independent study units cannot be applied to any graduate degree unit requirements.

Only conditionally classified and classified students (or those who have the consent of the college director of graduate studies) may enroll in 600-level courses.

Students may not include more than 12 quarter units in transfer credit from other colleges. California State University, San Bernardino will not consider for transfer credit course work from any institution which will not accept that work in its own advanced degree program.

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## COURSE OFFERINGS IN PUBLIC ADMINISTRATION (PA)

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### Upper Division

#### 501. Administrative Leadership

Theory and practice of leading public sector organizations. Topics include leader traits, skills, styles, behaviors, development and evaluation. Formerly a topic under PA 590. (4 units)

#### 514. Management of Private Nonprofit Organizations

Analyzes the specific problems of management in private nonprofit organizations, including planning, personnel, financial and policy issues. (4 units)

#### 516. Public and Non-Profit Project Management

Aspects of project management, including needs and feasibility assessment, project design, proposal writing, contract negotiation, funding, developing project teams, managing team conflict, monitoring, and evaluation. (4 units)

#### 521. Principles of Planning

Introduction to local and regional community planning; includes methods of adoption and interorganizational relationships. (4 units)

#### 540. Introduction to Tribal Management and Governance

Roles, responsibilities and structure of tribal governments. The historical and legal underpinnings of the inter-governmental relations between the U.S. government and Indian tribes. The course will also explore relevant organizations and management theories, concepts and tools as applied to the management of tribal governments. Formerly a topic under PA 590. (4 units)

#### 542. Tribal Government Gaming and Economic Development

The historical and legal foundations and practices of tribal government gaming in the United States with particular attention focused on California. Includes an analysis of tribal governance, economic development, social and economic impacts of tribal government gaming. Formerly a topic under PA 590. (4 units)

#### 548. Management of Computers in the Public Sector

Designed to help students gain competency in computer related skills. Each topic may be taken once for credit. Three hours lecture and two hours activity laboratory.

- A. Word Processing (4 units)
- B. Data Base Management (4 units)
- C. Spread Sheet (4 units)
- D. Communication (4 units)
- E. Networking (4 units)
- F. Special Problems (4 units)
- G. Geographic Information Systems (4 units)

#### 557. Public Sector Labor Relations

Analyzes issues created by collective bargaining and unionism in public sectors. Examples: selection of bargaining agents, bargaining scope and obligation, impasse resolution and grievance procedure. (4 units)

**492 / Public Administration****564. Local Public Administration**

Administrative characteristics and problems of public management in the urban area, including city, county, school and special district organization and functions. (4 units)

**568. Accounting for Government and Not-for-Profit Organizations**

Covers principles and practices of government fund accounting. Topics include governmental accounting concepts, types and structure of funds and accounts, application of generally accepted accounting principles to government and not-for-profit entities, presentation and uses of financial statements. (Also offered as ACCT 568. Students may not receive credit for both.) Prerequisite: ACCT 211. (4 units)

**575. Internship in Public Administration**

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

**590. Seminar in Public Administration**

An intensive study of some phase of public administration to be developed by the instructor. May be repeated for credit as topics change. (4 units)

**595. Independent Study**

Special topics involving library and/or field research. A total of ten units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (2 or 4 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**603. Research Methods in Administration**

Principles of research design, development of research instruments, data accumulation and analysis of significant data integrated with use of computers in research. Critique of sample research studies from the literature and a research study conducted by the student. (Also offered as MGMT 603. Students may not receive credit for both.) Prerequisite: SCM 210. (4 units)

**611. Public Administration Theory and Practice**

A critical analysis of major theories of public administration and their application, including development of the discipline, evolution of institutional forms both in the United States and in international settings, concepts of decision-making and role of public administration in society. (4 units)

**612. Productivity Measurement in the Public Sector**

Analysis of effective and efficient mobilization of agency resources. Includes examination of the environment, techniques, variables and perspectives in applying productivity measurements, particularly at the local level. (4 units)

**615. Public Financial Management**

Management of financial resources in public organizations with emphasis on local government. Topics include evaluation and monitoring of financial condition and trends, fiscal policy analysis, revenue and expenditure forecasting, capital planning and financing, cash flow

management, debt administration, cost allocation and integrated financial management systems. (4 units)

**616. Comparative Public Administration**

Cross-national comparison of administrative systems, structures, processes and practices of developed and third world countries. (4 units)

**617. Management of Local Economic Development**

An introduction to the forms, processes and effects of economic development. Topics include: the dynamics of urban change and revitalization; the planning and financing of community economic development programs and projects; the role of public, neighborhood, advocacy and not-for-profit organizations, and social and environmental impacts of economic change. (4 units)

**618. Local Government Development Finance**

Explains and analyzes the major financing mechanisms for local government economic and public works development, their working and effectiveness. Topics include the background of the budget process and pertinent documents, an overview of economic development and public works finance, assessment districts, fiscal impact analysis, capital budgeting and financing, revenue forecasting, financing of redevelopment agencies, financial indicators, and case studies of development financing. (4 units)

**619. Diversity and Public Organizations**

Exploration of the diversity challenges facing public, business and non-profit organizations as they pursue their public policy and economic missions. Topics include: diversity in the context of organizational behavior; diversity's impact on leadership, management, people, organizations, economic development and public policy. (4 units)

**620. Regulatory Structure, Policies, and Process in Water Law**

Legal authority of water agencies, the procedures employed to exercise and limit that authority, the structure and process of administrative law, and the sharing of power in a federal system. Topics include powers and liabilities of water agencies, administrative procedures act, due process of law, licensing, environmental laws, rulemaking, negotiated rulemaking, interstate compacts, emergency powers, property condemnation, allocation of water resources, uses of water, and legal aspects of financing water projects. (4 units)

**621. Water Resources Agency Management**

Strategies for and issues in the management of local, state and federal water resources agencies. Topics include designing an organizational structure, reengineering, interorganizational coordination, intergovernmental collaboration, organizational culture, high-performance organizations, growth management, and leadership. (4 units)

**622. Politics and Public Relations in Water Resources Management**

Basic concepts and techniques of politics and public relations between water agencies, the communities they serve, and other governmental entities. Problems and techniques in administering of programs to manage water politics and improve public relations, including the applications of political and communication theories and practices to water resources management. (4 units)

**628. Intergovernmental Administration**

Administration of governmental programs in an intergovernmental context. Development of the federal system, relationships among federal, state and local governments, intergovernmental fiscal arrangements, practical problems in setting and implementing policies in an intergovernmental context. (4 units)

**630. Program Evaluation**

Purposes and methods of program evaluation in public and nonprofit organizations. Topics include selection of programs for evaluation, delineation of frame of reference, gathering of information, techniques of reporting, data analysis, comparative approaches of evaluation and ethical issues. Prerequisite: MATH 305 or SCM 210. (4 units)

**641. Federal Indian Law and Administration**

Overview of federal Indian laws and policies from treaty making to present. Historical overview of political and legal frameworks, executive policies, and judicial decisions in the context of Indian affairs. Formerly a topic under PA 690. (4 units)

**643. Public Policy Issues and American Indians**

Public policy issues tribal nations face as they enter the twenty-first century, including: political sovereignty, economic development, constitutional reform, cultural and language maintenance and promotion, land and water rights, religious freedom, health and social welfare, and education. Emphasizes the breadth of issues that leaders must confront from health, education, and social services to politics, economics, and cultural change. Formerly a topic under PA 690. (4 units)

**661. Government Systems Acquisition and Contracting**

Introduces the principles and concepts that underlie successful acquisition management, as well as major systems development and production. Focuses on issues of large-scale acquisition systems and processes from the development of an initial capability or need through design, development, production, fielding, sustainment, and disposal. Formerly a topic under PA 690. (4 units)

**662. Human Resource Management in the Public Sector**

Analysis of the personnel function as it applies to public sector organizations. Topics include development of modern public service, functions of personnel management, politics of the civil service, employment discrimination, labor management relations, professionalism and ethics, comparative public personnel administration, and computerization of human resources management. (4 units)

**663. Public Budgeting and Finance**

Budget concepts and their application in varied settings including federal, state, and local governments in the United States and overseas. Includes economic, management and political approaches to budgetary decision-making processes, and institutions, as well as major issues in contemporary budgeting. (4 units)

**664. Management of Public Organizations**

Issues in public management, including the role of the public executive, theories of public organizations, human behavior in public organizations, management of innovation and policy change, and information management. (4 units)

**670. Emergency Management**

Covers basic theory and practice in emergency management. Topics include approaches to emergency management, the political and administrative environment, administration of complex systems, behavioral aspects, and establishing and implementing community wide policies. (4 units)

**671. Defense Acquisition Program Management**

Examines the application of acquisition theory in defense systems. Topics include work breakdown structures, program schedules, management of risk related to acquisitions, contract planning and post-award activities, earned value tools, and evaluation practice. Prerequisite: PA 661. (4 units)

**672. Administrative Regulation**

Discretionary authority of regulatory agencies, the manner in which power is exercised by such agencies, and the administrative structure of the regulatory process. (4 units)

**680. Public Policy Analysis**

An integrative course examining the analytical, behavioral and systems sciences approaches to public administrative systems with emphasis upon the development of evaluative skills in applied decision-making. (This course is equivalent to SW 629. Students may not receive credit for both.) Prerequisites: PA 611, 662, and 663. (4 units)

**690. Advanced Topics in Public Administration**

Intensive study of an advanced topic in public administration. May be repeated for credit as topics change. (4 units)

**695. Graduate Research Project**

Required field study in public administration, including both literary and empirical research. Prerequisites: completion of, or concurrent enrollment in, all other courses for the Master of Public Administration; and consent of instructor and college. (4 units)

**999. Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

# PUBLIC HEALTH

## Master of Public Health

### Department of Health Science and Human Ecology

Jack Brown Hall, Room 263  
(909) 527-5339 <http://health.csusb.edu/>

**FACULTY:** Dorothy Chen-Maynard, Kim Clark, Ted Coleman (Chair), Daniel Fahey, Marsha Greer, Joe Hughes, Robert LaChausse, Chris Lindfelt, Lal Mian, Robert Phalen

## MASTER OF PUBLIC HEALTH

### Requirements (60 units)

The Master of Public Health is appropriate for health professionals furthering their careers in the health and human services field, including county, state, and federal health agencies, community-based organizations, and public institutions dedicated to the improvement of population health status. The combination of evening coursework in community health education combined with an option for thesis research, field experience, project, or comprehensive examination makes the Masters of Public Health the preferred terminal degree for public health professionals.

Specific entrance requirements have been established by the University and the Department of Health Science and Human Ecology. Further information and application materials are available at the department office.

### Admission to the Program

In addition to the general requirements of the University, specific requirements for admission to classified graduate status are:

1. A minimum grade point average of 3.0 ("B") in the last 90 quarter units of undergraduate coursework and in all post-graduate coursework;
2. Undergraduate coursework in the natural and social sciences and statistics, as well as in cultural, social and ethnic diversity;
3. Completion of the graduate entrance writing requirement;
4. Submission of Graduate Record Examination (GRE) score;
5. The Test of English as a Foreign Language (TOEFL) for applicants whose education has been in a language other than English;
6. Paid professional experience in health and human services (preferred);
7. Three letters of recommendation, one from the school where the applicant most recently completed coursework, or from someone who can attest to the applicant's academic ability and professional promise in the graduate degree program;
8. A statement of purpose, double-spaced and three pages maximum, describing those experiences which have shaped the applicant's interest in public health, the one academic experience which has meant the most to the applicant in his/her professional career, immediate and long term professional goals, reasons for being interested in the MPH program; strengths the applicant brings to the program, and those skills which the applicant would like to improve.

Students who meet the above criteria may be admitted as conditionally classified graduate students. To attain fully classified status, students must satisfy conditions set by the department's graduate committee, including completion of at least 16 quarter units of MPH core coursework with a minimum grade point average of 3.0 ("B") and removal of any deficiencies.

### Advancement to Candidacy

To be advanced to candidacy, the student must:

1. Achieve classified status;
2. Complete 20 quarter units of core coursework with a minimum grade point average of 3.0 ("B");
3. Submit a formal program of study of graduate coursework prepared in consultation with the major advisor and approved by the MPH graduate coordinator. The program will include a professional field experience, project, thesis, or comprehensive examination;
4. If the thesis option is selected, identify a faculty member from the Department of Health Science and Human Ecology who will chair the student's thesis committee;
5. Be recommended for advancement to candidacy from the graduate coordinator of the selected concentration area.

### Requirements for Graduation

1. Advancement to candidacy for the degree and approval of the specific program of study;
2. A grade point average of 3.0 ("B") or better in coursework taken to satisfy the requirements of the MPH and grades of 2.0 ("C") or better in all courses in the program;
3. A minimum of 60 units of approved graduate-level coursework included in the formal program, with no more than the required core courses transferred from an accredited MPH program elsewhere, and at least half of the units required for the degree gained from 600-level courses in Health Science and Human Ecology (HSCI);
4. One of the following:
  - a. completion and presentation of an acceptable project
  - b. completion and presentation of an acceptable thesis
  - c. passing the comprehensive examination;
5. The graduation writing requirement is met upon successful completion of the field experience report, project or thesis.

**Note:** Classified and conditionally classified graduate students in the MPH program must complete their degree requirements within seven years of initial admission to the degree program.

### Degree Requirements (60 units)

#### Public Health Core (32 units)

1. HSCI 610. Foundations I: Health Status and Determinants of Health (4)
2. HSCI 611. Foundations II: Health System Organization and Delivery (4)
3. HSCI 612. Public Health Statistics (4)
4. HSCI 616. Environmental and Occupational Health (4)
5. HSCI 617. Epidemiology (4)
6. HSCI 695. Capstone Seminar (4)
7. Eight units chosen from:

#### Project

1. HSCI 696A. Project I: Proposal Development and Research (4)
2. HSCI 696B. Project II: Project Research, Writing, and Defense (4)

#### Thesis

1. HSCI 699A. Thesis I: Proposal Development and Research (4)
2. HSCI 699B. Thesis II: Research, Writing, and Defense (4)

#### Comprehensive Examination

1. HSCI 999. Comprehensive Examination (0)
2. Eight units of HSCI courses approved by advisor.



**Community Health Education (28 units)**

1. HSCI 607. Cross-Cultural Aspects of Health (4)
  2. HSCI 608. Health Research Methods (4)
  3. HSCI 613. Principles of Health Behavior (4)
  4. HSCI 614. Health Education Practice (4)
  5. HSCI 615. Health Education Program Planning and Evaluation (4)
  6. HSCI 640. Administration of Health Education Programs (4)
  7. Four units chosen from:
    - HSCI 525. Health Data Analysis and Demography (4)
    - HSCI 550. Health Aspects of Death and Dying (4)
    - HSCI 621. Individual and Small Group Interventions in Health Promotion (4)
    - HSCI 604. Theory and Practice of Interventions (4)\*
    - HSCI 606. Advanced Program Evaluation (4)\*
    - HSCI 620. Advanced Topics in Epidemiological Methodology (4)
    - HSCI 660. Advanced Topics in Health Science and Human Ecology (2-4)
    - HSCI 689. Field Experience (2-8)\*
- \*recommended for thesis candidates

# REHABILITATION COUNSELING

## Master of Arts in Rehabilitation Counseling

*Accredited by the Council on Rehabilitation Education*

### Certificate

Rehabilitation Counseling

### Department of Educational Psychology and Counseling

Faculty Office Building, Room 249

(909) 537-5606 <http://www.csusb.edu/coe/>

**FACULTY:** Margaret Cooney, Dwight Sweeney, Joseph Turpin

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## MASTER OF ARTS IN REHABILITATION COUNSELING

### Requirements (72 units)

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The Master of Arts in Rehabilitation Counseling offered by the College of Education is designed to prepare students to work with individuals with disabilities in public and private rehabilitation agencies, hospitals, industry and related fields. The graduate program, a two-year course of study, will train students in rehabilitation counseling, vocational evaluation and job placement of persons with disabilities. Graduates of the program will be prepared to take the certified rehabilitation counselor examination.

Rehabilitation counseling is a growing field in the mental health and allied health professions. A rehabilitation counselor helps persons with disabilities achieve their optimal social, psychological and vocational potential. Whenever possible, the final goal of rehabilitation is job placement. The rehabilitation counselor works with people who have different disabilities. The handicaps may be physical, intellectual, emotional or sociocultural.

Students will be encouraged to develop areas of specialization by completing research of individual interest and field work experiences in specialization areas. The rehabilitation counseling program also will offer a bilingual rehabilitation counseling experience. The purpose for having a bilingual experience is that there is a demand in the rehabilitation profession for counselors to have the skills to speak and work with Hispanic clients. The mission of the bilingual rehabilitation counseling experience will be to educate students to be rehabilitation counselors who will be able to speak conversational Spanish with Hispanic clients, have an understanding of Hispanic culture and be aware of the special needs of Hispanic persons with disabilities.

### Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree with a major preferably in education psychology, sociology, or a related social service field;
2. A cumulative undergraduate grade point average of 3.0 ("B") overall;
3. Completion of the graduate entrance writing requirement;
4. A cumulative grade point average of 3.0 ("B") in all previous graduate work;
5. Completion of an interview with two faculty members to assess competence in interpersonal skills and aptitudes for the rehabilitation counseling profession;
6. Participation in a continual evaluation process which will assess personality, character, professional ethics, aptitudes, counseling skills, dispositions, oral and written language usage and other interests;
7. Students need to pass EREH 615 and 616A with a grade of "B" or better in each course.

### Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified graduate standing;
2. Satisfactorily completed EREH 615 with a grade of "B" (3.0) or better;
3. Filed an approved Graduate Program Plan in consultation with the program advisor and coordinator;
4. Secured approval of candidacy from the College of Education;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the College and the Dean of Graduate Studies;
6. Submitted a proposal for the graduation writing requirement.

### Requirements for Graduation

1. A minimum of 72 quarter units of acceptable work, with 59 completed in residence at this university;
2. A minimum of 48 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements, including EREH 615 and 616A, and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of the Certified Rehabilitation Counselor (CRC) Examination, which is a national Certification examination given by the Commission on Rehabilitation Counselor Certification in Schaumburg, Illinois.

### Degree Requirements (72 units)

Rehabilitation counseling courses (68 units):

- |               |   |
|---------------|---|
| 1. EREH 610   | Research Assessment in Rehabilitation (4)   |
| 2. EREH 615.  | Introduction to Rehabilitation Counseling (4)   |
| 3. EREH 616A. | Multiple Aspects of Disability: Medical (4)   |
| 4. EREH 616B. | Multiple Aspects of Disability: Vocational (4)  |
| 5. EREH 617.  | Vocational Assessment and Development (4)   |
| 6. EREH 618.  | Applied Job Placement (4)   |
| 7. EREH 649.  | Organizational Development of Rehabilitation Services (4)   |
| 8. EREH 655.  | Multicultural Counseling in Rehabilitation (4)  |
| 9. EREH 652.  | Dynamics of Human Behavior (4)  |
| 10. EREH 656. | Counseling Theories and Techniques in Rehabilitation (4)  |
| 11. EREH 657. | Counseling Practicum in Rehabilitation (4)  |
| 12. EREH 667. | Practicum in Rehabilitation Counseling (4)  |
| 13. EREH 672. | Seminar Topics in Rehabilitation Counseling (Topic examples: Casework Management, Research in Rehabilitation, Current Issues in Rehabilitation, and Multicultural Issues) (4) |
| 14. EREH 678. | Theory and Practice of Group Counseling in Rehabilitation (4)   |
| 15. EREH 679. | Fieldwork in Rehabilitation Counseling (4) for a total of (12)  |

Electives (4 units)

1. Four units chosen from:

ECLG 650.	Applied Career Counseling (4)
ECLG 693.	Special Topics in School Psychology (4)
ESPE 530.	Psychology and Education of Exceptional Individuals (4)
ETEC 546.	Computer Based Technology in Education II (4)
EVOC 504.	Principles of Adult Education (4)

**Culminating Experience (4 units)**

1. EREH 695. Certified Rehabilitation Counselor Examination Preparation (4)
2. EREH 999. Comprehensive Examination (0) A grade of CR will be awarded upon successful completion of the Certified Rehabilitation Counselor (CRC) Examination.

Successful completion of the Certified Rehabilitation Counselor (CRC) Examination, which is a national Certification examination given by the Commission on Rehabilitation Counselor Certification in Schaumburg, Illinois, 60173. The exam is given biannually in April and October with usual available sites in California. Students need to apply on an individual basis and pay a fee to take the Certified Rehabilitation Counseling Examination. Students need to provide evidence of registration for the CRC Exam no later than the second quarter of their third year in the program. Students must take the CRC Exam no later than one year after the completion of all required coursework for the master's degree in Rehabilitation Counseling. Students' scores will be sent to the Coordinator of the Rehabilitation Counseling Master's Program, and will be credited to EREH 999. If a student does not pass the CRC on the first attempt, they need to retake the exam the next time the CRC exam is given. If after the second attempt they do not pass the examination, the student needs to petition both the Dean of Graduate Studies and the Coordinator of the Rehabilitation Counseling Program, for permission to develop a plan of remediation in order to retake the CRC exam.

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**CERTIFICATE PROGRAM**


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Certificates may be earned by regularly matriculated or Extended Learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. See Page 58 for additional certificate information.

**Certificate in Rehabilitation Counseling****Certificate Requirements (28 units)**

1. ECLG 531. Introduction to Counseling (4)
2. EREH 615. Introduction to Rehabilitation Counseling (4)
3. EREH 616A. Multiple Aspects of Disability: Medical (4)
4. EREH 616B. Multiple Aspects of Disability: Vocational (4)
5. EREH 617. Vocational Assessment and Development (4)
6. EREH 618. Applied Job Placement (4)
7. EREH 649. Organizational Development of Rehabilitation Services (4)

**Note:** EREH 615 must be completed with a grade of "B" (3.0) or better to continue work in the certificate program.

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**COURSE OFFERINGS IN  
REHABILITATION COUNSELING (EREH)**


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**Upper Division****542. Seminar in Rehabilitation Counseling**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-4 units)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**610. Research and Assessment in Rehabilitation**

Principles of research, research design, methods of data collection, introduction to personality, aptitude, achievement measurements relating to issues of significance to the field of rehabilitation. Observation data and measurement collection. Formerly EDUC 610. (4 units)

**615. Introduction to Rehabilitation Counseling**

Fundamental processes and practices of rehabilitation counseling including examination and analysis of the historical, philosophical, organizational, economic and legal basis of rehabilitation. Orientation and field visits to community rehabilitation counseling agencies required. Prerequisite: ECLG 531 or consent of instructor. (4 units)

**616. Multiple Aspects of Disability**

Orientation to community resources providing services to disabled persons. Multiple aspects of disabilities. Implications of disabilities for vocational adjustments and rehabilitation processes.

- A. Medical. Prerequisite: EREH 615. (4 units)
- B. Vocational. Prerequisite: EREH 616A or consent of instructor. (4 units)

**617. Vocational Assessment and Development**

Survey of methods of vocational assessment of disabled persons. Vocational development theories, occupational and career information systems and psychology of work. Prerequisites: EREH 615, 616A and 616B or consent of instructor. (4 units)

**618. Applied Job Placement**

Survey of methods and techniques of job placement with different client populations in rehabilitation settings. Job analysis, job seeking training skills, placement and follow-up for rehabilitation clients. Prerequisites: EREH 615, 616A, 616B and 617 or consent of instructor. (4 units)

**649. Organizational Development of Rehabilitation Services**

Various types of training, administration, developmental and job placement programs used in industry, public and private rehabilitation agencies and insurance companies. Prerequisites: EREH 615, 616A, 616B, 617 and 618 or consent of instructor. (4 units)

**652. Dynamics of Human Behavior**

Theories of learning and human growth and development using life-span approach from a rehabilitation counseling perspective. Includes effects of racial, lifestyle, and sex stereotyping in the community. Formerly ECLG 652. Prerequisite: ECLG 531 with a grade of "B" or better. (4 units)

**655. Multicultural Counseling in Rehabilitation**

Theory of and techniques of counseling skills to serve multi-ethnic populations relating to individuals with disabilities. Analysis of differing socio-economic, racial, and social backgrounds of individuals with disabilities. Includes 20 hours of related practicum experience. May not be taken for credit by students who have received credit for ECLG 655. (4 units)

**656. Counseling Theories and Techniques in Rehabilitation**

Theories and techniques of counseling, application to rehabilitation settings; experiential orientation in working with individuals with disabilities. May not be taken for credit by students who have received credit for ECLG 656. Prerequisite: EREH 615 or consent of program coordinator. (4 units)

**498 / Rehabilitation Counseling****657. Counseling Practicum in Rehabilitation**

Supervised practice in the application of counseling skills, theories and techniques working with individuals with disabilities. Includes 30 hours of related practice with individuals with disabilities. May not be taken for credit by students who have received credit for ECLG 657A. Prerequisites: EREH 615, 616A, and 656 or permission of the program coordinator. (4 units)

**667. Practicum in Rehabilitation Counseling**

Supervised practice in individual rehabilitation counseling in a laboratory setting. Prerequisites: ECLG 657A and 678 or consent of instructor. (4 units)

**672. Seminar Topics in Rehabilitation Counseling**

Seminar topics include research in rehabilitation, casework management, multicultural issues in rehabilitation and current issues in rehabilitation counseling. Students will complete a research paper which will meet the graduation writing requirement. May be repeated for credit as topics change. Formerly EREH 605. (4 units)

**678. Theory and Practice of Group Counseling in Rehabilitation**

Theories and techniques of group counseling in rehabilitation settings with individuals with disabilities. Includes 20 hours of related practicum experience in the field. May not be taken for credit by students who have received credit for ECLG 678. Prerequisites: EREH 615, 616A, 656 and 657 or permission of program coordinator. (4 units)

**679. Fieldwork in Rehabilitation Counseling**

Field experience in Rehabilitation Counseling. Students will take fieldwork in segments of four units for a total of 12 units. Students will be allowed to take up to two segments in one quarter. Graded credit/no credit. Prerequisite: consent of program coordinator. (4 units)

**695. Certified Rehabilitation Counselor Examination Preparation**

Preparation for the Certified Rehabilitation Counselor Examination. Graded credit/no credit. Prerequisites: completion of 48 units in the program and/or consent of the program coordinator. (4 units)

**999. Comprehensive Examination**

A grade of CR will be awarded upon successful completion of the Certified Rehabilitation Counselor (CRC) Examination. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program and in good academic standing. (0 units)



# SOCIAL SCIENCES

## Master of Arts in Social Sciences

### College of Social and Behavioral Sciences

Social and Behavioral Sciences Building, Room 327  
(909) 537-5524 <http://csbs.csusb.edu/>

COORDINATOR: Mayo Toruño

## MASTER OF ARTS IN SOCIAL SCIENCES

### Requirements (45 units)

The objective of the M.A. in Social Sciences is to provide students with training in the method and theory of social science, as well as the basic perspectives of the disciplines within it. While the program provides course work in the breadth of the social sciences, its emphasis is on history, political science, economics, and geography. This program is especially attractive to those pursuing a career in or seeking advancement in secondary school and community college teaching in the social sciences. Those interested in work in other types of educational and social science related fields may also benefit from this program

### Admission to the M.A. Program

In addition to the general requirements of the university, specific requirements for admission to classified status are:

1. A baccalaureate degree in a social science discipline or in social science itself, or another baccalaureate degree with course work that satisfies the College of Social and Behavioral Sciences that the student has received adequate preparation to undertake the program;
2. A cumulative undergraduate grade point average of at least 2.5 overall and at least 3.0 ("B") in the major;
3. Completion of the graduate entrance writing requirement;
4. A brief statement describing the applicant's preparation for graduate study and academic and professional goals, to be submitted to the College of Social and Behavioral Sciences;
5. Three letters of recommendation, with at least two from former professors. Letters should come directly from the recommenders or be included in a placement file. It is the applicant's responsibility to determine if letters have been received.

Applicants who meet the general requirements of the university for admission to graduate study but do not meet the additional requirements listed above may be admitted to the university in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, when space permits, in graduate courses in the program. An unclassified postbaccalaureate student should consult with the College of Social and Behavioral Sciences to determine what steps would be necessary to advance to classified status.

### Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified status;
2. Secured a graduate advisor to supervise the course of study;
3. Completed, with the approval of the advisor, at least 12 quarter units of graduate course work at this university and achieved a minimum grade point average of 3.0 ("B") in those courses;
4. Filed an approved program which must have the approval of the student's advisor and the coordinator of the program.

### Requirements for Graduation

1. Completion of a minimum of 45 quarter units of acceptable graduate-level work, with at least 32 quarter units completed in residence at this university;
2. A grade point average of at least 3.0 ("B") in all courses taken as part of the program;

3. Successful completion of the comprehensive examination or a thesis;
4. In addition to completion of the graduate writing requirement, classified students enrolled in the M.A. in Social Sciences must satisfy the program's writing requirements by:
  - A. Successful completion of the M.A. in Social Sciences with a grade point average of "B" or better in Social Sciences core courses requiring students to write in a manner appropriate to the relevant social science disciplines; and
  - B. Successful completion of the Social Science Comprehensive Examination (SSCI 999) requiring acceptable writing skills, or preparation of an acceptable graduate thesis (SSCI 699);
5. At least 23 units of 600-level courses;
6. Any additional requirements not cited above and listed on Page 350.

**Comprehensive examination:** Students who choose the comprehensive examination option must take that examination no earlier than in the last quarter of program course work. These students must enroll in SSCI 999. Comprehensive Examination. Students with less than a 3.0 grade point average in the program will not be permitted to take the examination. The comprehensive examination committee for each candidate will consist of the student's advisor and two other faculty teaching in the program, as mutually agreed between the candidate and the faculty. The comprehensive examination will cover the areas of social science treated in the course requirements. The examination will be graded pass/fail, and candidates failing the examination may take it a second time within one year. If a second examination is needed, the student and advisor should discuss what actions may be necessary to remedy the student's shortcomings. No student will be permitted to take the comprehensive examination more than twice.

**Thesis:** A student selecting the thesis option must complete a thesis that is approved by his or her thesis committee. The thesis must reflect original work and show a level of competence appropriate for a master's degree. The thesis committee shall consist of two or three faculty members, including the student's advisor, mutually agreed upon by the student and faculty. By mutual agreement between the student and advisor, an additional member may be added to the committee. The student should enroll in SSCI 699. Thesis, in the quarter when completion of the thesis is anticipated.

### Degree Requirements (45 units)

#### Core Courses (21 units)

1. ECON 600. Proseminar in Economics (4)
2. GEOG 600. Proseminar in Geography (4)
3. HIST 600. Proseminar in History (4)
4. PSCI 610. Proseminar in Political Science (4)
5. SSCI 600. Social and Cultural Perspectives in the Social Sciences (5)

#### Electives (24 units)

1. Each student must select three concentration areas from within the four "major fields:" economics, geography, history and political science. For each concentration area, the student must take two courses as electives. The following courses will be acceptable as electives:
  - A. All courses numbered 500-699 in economics, geography, history and political science. At least one course must be at the 600-level.
  - B. Other upper division courses in those departments as approved by the student's advisor and the program coordinator.

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**COURSE OFFERINGS IN  
SOCIAL SCIENCES (SSCI)**

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**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**600. Social and Cultural Perspectives in the  
Social Sciences**

The relationship of values, behavior, social setting, and environment in the analysis of human interaction. Both intracultural and crosscultural perspectives will be addressed in light of sociological and anthropological theories. Substantive and methodological contributions will be presented. Laboratory will provide students with hands-on research skills component. Four hours lecture and two hours laboratory. Prerequisite: consent of instructor. (5 units)

**695. Directed Graduate Studies**

Graduate-level independent study for students in the Master of Arts in Interdisciplinary Studies; to be conducted under direct supervision of a faculty member from the student's committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of the Dean of Graduate Studies. (1-6 units)

**698. Continuous Enrollment for Graduate  
Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

**699. Thesis**

Independent graduate research resulting in thesis and successful defense. Prerequisites: advancement to candidacy and consent of program coordinator. (4 units)

**999. Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of the areas, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program and in good academic standing. (0 units)

# SOCIAL WORK

## Master of Social Work

*Accredited by the Council on Social Work Education*

### Credential

Pupil Personnel Services - Social Work  
(Credential requirements can be found on Page 419.)

### Department of Social Work

Social and Behavioral Sciences Building, Room 423  
(909) 537-5501 <http://socialwork.csusb.edu/>

**FACULTY:** Patsy Andrada, Janet Chang, Thomas Davis, Ray Liles, Paulina Martinez, Rosemary McCaslin, Teresa Morris (Chair and Graduate Coordinator), Herb Shon, Laurie Smith

## MASTER OF SOCIAL WORK

### Requirements (90 units)

The Department of Social Work offers courses leading to the Master of Social Work (MSW) degree and is designed to provide for the education of advanced social work practitioners. The program is based upon the requirements of the Council on Social Work Education, the national accrediting body for social work programs.

The MSW program is structured into two models: Model (1) offers six quarters of course work leading to the MSW degree within two academic years. This option is intended for students who can devote their time and attention to full-time, intensive study. Model (2) offers the same course work over three academic years (three year plan may include summer courses). It must be emphasized that an MSW program is very demanding of time and energy. Model (2) is not designed for students who must work 40 hours per week. It is necessary for these students to reduce their hours of employment. Those who must work 40 hours per week should consider a planned four-year course of study.

The MSW program comprises a Foundation and Advanced curriculum. Students must complete all Foundation and Advanced classes. Both the Foundation and the Advanced curriculum is divided into micro and macro social work practice. The micro practice sequence of courses prepares students to work with individuals, families and groups. The macro practice sequence of courses prepares students to work with organizations and communities with an integrated focus on policy practice.

The Pupil Personnel Services Credential in Social Work (PPS-SW) prepares students to be social workers in school settings. See Page 419.

### Admission to the Program

1. A baccalaureate degree from an accredited college or university;
2. A grade point average of 3.0 ("B") or better in all course work;
3. A grade point average of 3.0 ("B") or better in the last 90 quarter units or last 60 semester units;
4. An academic background in the liberal arts;
5. Completion of the graduate entrance writing requirement;
6. A year of full-time paid experience, one year internship in a social agency, or relevant volunteer service (this requirement may be waived);
7. Evidence of personal qualifications, motivation and potential that give promise of a successful social worker; an autobiographical statement, three letters of reference from individuals who are familiar with the student's academic work potential and level of maturity;

8. The following courses or their equivalents:
  - A. SOC 307. Social Research I
  - B. SOC 339. Socialization
  - C. A course in biology or health science, which would give the student an understanding of basic human physiology.

### Course Waivers

Students are permitted to satisfy course requirements in the foundation year curriculum by passing a challenge assessment in each required course. Courses which are successfully challenged must be substituted with an approved elective so that a total of 90 units is completed for the master's degree. Field work courses are not subject to waiver.

Students with BSW degrees from universities or colleges with accredited BSW programs are required to meet with their faculty advisor prior to beginning course work to determine whether any foundation year MSW courses are redundant with their undergraduate preparation. Such determination may be based on course syllabi, texts, informal evaluation or formal examination. Each course waived for the qualified BSW applicant must be substituted with an approved elective so that a total of 90 units is completed for the master's degree.

### Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified status;
2. Satisfied the general university requirements for advancement to candidacy;
3. Selected a thesis committee and gained approval of the thesis topic by the thesis committee if a thesis is chosen;
4. Completed with a grade point average of 3.0 ("B"), at least 48 quarter units of course work;
5. Demonstrated academic and professional competence in field and classroom.

### Requirements for Graduation

1. A minimum of 90 quarter units of designated graduate courses as approved on the petition for advancement to candidacy. Seventy-seven of the quarter units must be completed at this university (with the exception of MSW course work from an accredited program);
2. A grade point average of at least 3.0 ("B");
3. Completion of a culminating research project or a thesis;
4. Up to one half of the course work (45 quarter units) may be transferred from an accredited MSW program. Only grades of "B" (3.0) or better will be accepted and students must first be accepted for admission. Courses not in keeping with program requirements may not be acceptable;
5. Completion of all MSW coursework within a four year period;
6. Completion of SW 625AB. Research Project, which will fulfill the graduation writing requirement;
7. Any additional requirements not cited above and listed on Page 350.

### Electives

In lieu of taking all electives in the social work curriculum, students may elect to take up to four units of relevant 500- or 600-level electives from other disciplines with the approval of their advisor.

### Accreditation

The program was granted full accreditation by the Commission on Accreditation of the Council on Social Work Education in February, 1992. Questions regarding accreditation should be directed to the chair of the Department of Social Work.

## Residency

The student must carry an academic workload of a minimum of eight units of 500- or 600-level course work for three consecutive quarters to achieve the residency requirement of full-time graduate status as defined by the university.

## Degree Requirements (90 units)

The program is structured into two Models: Model 1 is designed for students who can devote their time and attention to intensive study. It offers six quarters of course work leading to the MSW degree in two years. Model 2 is designed for students who need to spread their studies over a longer period of time to accommodate other responsibilities. It offers course work leading to the MSW degree in three years. The timing of particular courses for the Model 1 and Model 2 programs are described on the department's web site and in The MSW Student Handbook, available in the department office.

In keeping with accreditation requirements, all course work for the MSW degree must be completed within four years and students must enroll in at least one course during each quarter for which they are registered. (The latter requirement does not apply to summer sessions.)

Course work required for the MSW degree is divided into the foundation curriculum and the advanced curriculum. In Model 1, foundation courses are completed in the first three quarters of study; in Model 2, the same courses are taken over the first two years of study. Courses in the advanced curriculum are taken in the second year of Model 1; the third year of a three-year program is virtually identical to a full-time program in coverage of the advanced curriculum. In a four-year program, the advanced courses are taken in the last two years of study. The curriculum is divided into the micro and macro practice sequences. All students take both sequences.

Required courses leading to the MSW degree cover five curricular areas: Micro Practice, Macro Practice, Human Behavior and the Social Environment (HBSE), Research and Field Work. Courses within each category must be completed in sequence, as they are listed below, and all foundation courses in a category must be completed before registering in the advanced courses in the same category.

### Foundation Courses (52 units)

1. Foundation Micro Practice (10 units)
  - SW 602A. Foundation Micro Practice I (4)
  - SW 602B. Foundation Micro Practice II (4)
  - SW 602C. Foundation Micro Practice III (2)
2. Foundation Macro Practice (10 units)
  - SW 606A. Foundation Macro Practice I (4)
  - SW 606B. Foundation Macro Practice II (4)
  - SW 606C. Foundation Macro Practice III (2)
3. HBSE (8 units)
  - SW 604A. Human Behavior in the Social Environment I (4)
  - SW 604B. Human Behavior in the Social Environment II (4)
4. Research (8 units)
  - SW 612. Social Work Research I (4)
  - SW 613. Social Work Research II (4)
5. Field (12 units)
  - SW 608A. Foundation Field Work I (4)
  - SW 608B. Foundation Field Work II (4)
  - SW 608C. Foundation Field Work III (4)
6. Four units of electives, approved by advisor if taken outside the department.

### Advanced Year (38 units)

1. Research (4 units)
  - SW 625A. Research Project I (2)
  - SW 625B. Research Project II (2)
2. Field (12 units)
  - SW 608D. Advanced Field Work I (4)

- SW 608E. Advanced Field Work II (4)
  - SW 608F. Advanced Field Work III (4)
3. Advanced Practice Courses (20 units)
    - Micro Practice
      - SW 645. Social Work Advanced Micro Practice I (4)
      - SW 646. Social Work Advanced Micro Practice II (4)
      - SW 647. Social Work Advanced Micro Practice III (2)
    - Macro Practice
      - SW 655. Social Work Advanced Macro Practice I (4)
      - SW 656. Social Work Advanced Macro Practice II (4)
      - SW 657. Social Work Advanced Macro Practice III (2)
  4. Integrative Seminar (2 units)
    - SW 660. Advanced Practice Integrative Seminar (2)

**Note:** The research project represents the culminating graduate experience. A thesis may be done as an expansion of the research project but is optional. The research project is developed in SW 613 and is carried out in the field setting. It must be on a social work practice topic, must use objective analysis and will be presented to faculty and field personnel orally and in writing.

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## COURSE OFFERINGS IN SOCIAL WORK (SW)

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### Upper Division

#### 590. Special Topics

Special topics in social work. May be repeated for credit with consent of instructor as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

#### 595. Independent Study

Special topics involving library and/or field research. May be repeated for credit. Prerequisite: consent of instructor. (1-4 units)

### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

#### 602. Foundation Micro Practice

Introduction to generalist model of practice with individuals, families and groups, comparative theories of micropractice, introductory intervention skills. Prerequisites: classified graduate standing in the MSW program and consent of department.

- A. I: Overview of generalist model and history (4 units)
- B. II: Comparative theories and models. Prerequisite: SW 602A. (4 units)
- C. III: Introductory intervention skills. Prerequisite: SW 602B. (2 units)

#### 604. Human Behavior in the Social Environment

Critical appraisal and review of individual development from infancy through old age, from biological, sociological, cultural and psychological perspectives. Prerequisites: classified graduate standing in the MSW program and consent of department.

- A. I: Birth Through Adolescence. (4 units)
- B. II: Adulthood and Aging. Prerequisite: SW 604A. (4 units)

#### 606. Foundation Macro Practice

Introduction to generalist model of practice with organizations and communities including policy practice in both arenas. Theories of power and leadership. Introductory skills in task groups, leadership and collaboration. Prerequisites: classified graduate standing in the M.S.W. program and consent of department.

- A. I: Overview of generalist model and history. (4 units)
- B. II: Practice theory and models. Prerequisite: SW 606A. (4 units)



- C. III: Introductory intervention skills. Prerequisite: SW 606B. (2 units)

### 608. Field Work

Advanced practice experience in public and private agencies with individuals, families, groups, formal organizations and communities. Graded credit/no credit. Prerequisites: classified graduate standing in the MSW program and consent of department.

- A. Foundation Field Work I. Field placement hours (160) and monthly seminar. (4 units)
- B. Foundation Field Work II. Field placement hours (160) and monthly seminar. Prerequisite: SW 608A. (4 units)
- C. Foundation Field Work III. Field placement hours (160) and monthly seminar. Prerequisite: SW 608B. (4 units)
- D. Advanced Field Work I. Field placement hours (200) and monthly seminar. Prerequisite: SW 608C. (4 units)
- E. Advanced Field Work II. Field placement hours (200) and monthly seminar. Prerequisite: SW 608D. (4 units)
- F. Advanced Field Work III. Field placement hours (200) and monthly seminar. Prerequisite: SW 608E. (4 units)

### 612. Social Work Research I

Theory, practice and methods of data collection and analysis. An examination of the role of research in the development of social work. Prerequisites: classified graduate standing in the MSW program and consent of department. Prerequisite: SW 604B. (4 units)

### 613. Social Work Research II

Further examination of the role of research in the development of social work theory, practice and methods of data collection and analysis. Prerequisites: SW 612. (4 units)

### 614. Child Abuse and Neglect

Critical analysis of child maltreatment and neglect, focusing upon recent research and treatment innovations. Satisfies California LCSW and MFCC requirements. Prerequisite: SW 604B. (4 units)

### 615. Domestic Violence

An introduction to the knowledge, skills, and values utilized in direct social work practice with victims and perpetrators of domestic violence. Prerequisite: SW 604B. (4 units)

### 616. Human Sexuality and Social Work Practice

Critical analysis of issues and problems associated with human sexuality with an emphasis on sexually oppressed groups and the sexual life cycle from a psychosocial perspective. Satisfies California LCSW and MFCC requirements. Prerequisite: SW 604B. (4 units)

### 617. Social Work with People with Disabilities

Theories, practice, models of service delivery, and ethical and legal issues related to social work interventions with people with disabilities. Prerequisite: SW 604B. (4 units)

### 618. Mental Health Seminar

Required for students who have been awarded the CALSWEC stipend. Includes CALSWEC competencies, addressing micro practice, cultural competence, HBSE, research, and workplace management. Must be repeated for a total of three units. (1 unit)

### 620. Social Work with Alcohol and Drug Abuse

An examination of theories, research and treatment regarding alcohol and drug abuse. Satisfies California LCSW and MFCC requirement. Prerequisite: SW 604B. (4 units)

### 622. Crisis Intervention and Emergency Treatment

An examination of crisis theory. Principles and practice of crisis intervention treatment. Prerequisite: SW 604B. (4 units)

### 625. Research Project

A culminating graduate experience in which a practice issue specific to the student's field setting and specialization is objectively evaluated and presented orally and in writing.

- A. I. Students gather data and complete initial stages of implementation of research project. Prerequisite: SW 613. (2 units)
- B. II. Students complete data analysis, write the research report and present findings. Prerequisite: SW 625A. (2 units)

### 627. Psychopathology

An advanced human behavior course giving the student an understanding of dysfunctional behavior and the application of DSM to the diagnostic function. Formerly SW 604C and 627. Prerequisite: SW 604B. (4 units)

### 629. Advanced Social Welfare Policy Analysis

Examines in an analytical, behavioral and systems sciences approach social welfare policy with an emphasis on the development of evaluative skills in applied decision making. This course is equivalent to PA 680. Public Policy Analysis. Students may not receive credit for both. Prerequisite: SW 604B. (4 units)

### 632. Forensic Social Work

Focus on evidential and procedural rules in court testimony which relate to social work practice. Emphasis on court testimony involving child abuse and neglect, sexual violence, and institutionalization of the mentally ill. Prerequisite: SW 604B. (4 units)

### 633. Social Work Intervention with the Elderly

Intervention with the elderly. Case management functions of social work practice with the elderly as well as clinical interventions in problems often troubling the elderly. Prerequisite: SW 604B. (4 units)

### 634. Play Therapy With Children in Crisis

Examines the theoretical background of play therapy, the assessment of children in crisis, the goals, process and technique of play therapy. Prerequisite: SW 604B. (4 units)

### 635. Supervision in Social Work

Review of major supervisory functions in social work agencies with special attention to clinical supervision of practice, supervising compliance with agency policies and supervision of agency workload expectations. Prerequisite: SW 604B. (4 units)

### 637. School Social Work

Addresses competences such as social work with students and teachers in the classroom setting; social work with students and their families around learning issues and family problems; the application of learning theory to students' school experience; social work with diverse student populations; case management of services both inside and outside the school site; and social work in the community setting to promote student learning. Prerequisite: SW 604B. (4 units)

### 638. Public Child Welfare: Policy and Practice

Public child welfare services and issues from an advanced generalist perspective. Prepares social work students for evidence-based, culturally competent, family-focused, strength-based, and outcome-oriented child welfare practice. Prerequisite: SW 604B. (4 units)

**641. Social Work and the Law**

Addresses the knowledge and skills needed by social workers when interfacing with the legal system in various social work practice settings including children, youth and families; and mental health. Formerly a topic under SW 690. Prerequisite: SW 604B. (4 units)

**645. Social Work Advanced Micro Practice I**

Theories and models of practice learned in Foundation year curriculum are applied to the acquisition of practice skills that can be applied to work with individuals, groups and families within specific social work practice settings. Formerly SW 640. Prerequisite: SW 602C. (4 units)

**646. Social Work Advanced Micro Practice II**

Models of practice relating to skills and competencies such as case management, inter-agency collaboration and advanced multi-system assessment are addressed. Prerequisites: SW 645. (4 units)

**647. Social Work Advanced Micro Practice III**

Social work practice with individuals, families and groups in specific populations commonly served by social workers. This includes an understanding of the various roles a social worker might play with this client population including, therapist, case manager, medication manager, protective services worker, substance abuse specialist, researcher, educator, etc. Prerequisites: SW 646. (2 units)

**655. Social Work Advanced Macro Practice I**

Theories and models of community practice and organizational/agency development that have been learned in the Foundation year are applied to the development of specific skills while working with organizations/agencies and communities in social work settings. This includes social planning, community development, political advocacy, and social action. Formerly SW 650. Prerequisites: SW 606C. (4 units)

**656. Social Work Advanced Macro Practice II**

Strategies for organizational and community change including policy practice in both organizational/agency and community settings, coalition building, program development, budgeting, grant writing and interagency networking. Formerly SW 651. Prerequisites: SW 655. (4 units)

**657. Social Work Advanced Macro Practice III**

Leading organizational/agency development and change. Social work roles addressed include supervisor, trainer/mentor, team leader and program evaluator. Formerly SW 652. Prerequisites: SW 656. (2 units)

**660. Advanced Practice Integrative Seminar**

Integration of content learned in the micro and macro sequences through the use of case studies and a seminar model of learning. Prerequisites: SW 646 and current enrollment in SW 647 and 657. (2 units)

**690. Advanced Topics in Social Work**

An intensive study of some aspect of social work. May be repeated for credit as topics change. Prerequisite: classified graduate standing in the MSW program or consent of instructor. (4 units)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

**699. Thesis Research**

Preparation of a thesis for the Master of Social Work degree program under the direction of a student's thesis committee. Prerequisites: classified graduate standing and consent of department. (4 units)

**999. Graduate Comprehensive Examination**

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program and in good academic standing. Required for the Pupil Personnel Services Credential, Social Work only. (0 units)

# SOCIOLOGY

## Department of Sociology

Social and Behavioral Sciences Building, Room 327  
(909) 537-5541 <http://csbs.csusb.edu/sociology/>

The following course is offered in support of graduate degree programs offered at this university.

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### COURSE OFFERING IN SOCIOLOGY (SOC)

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#### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

#### 606. Sociology of Terrorism

Ideology, causes, development and sociological effects of terrorism in society. Also included are the histories of terrorist groups, social-psychological profiles of members, technology and modus operandi. (4 units)

# SPANISH

## Master of Arts in Spanish

Spanish Language Teaching  
Hispanic Literature, Linguistics and Civilization

## Department of World Languages and Literatures

University Hall, Room 314  
(909) 537-5847 <http://flan.csusb.edu/>

**COORDINATOR** Daniel Whitaker

## MASTER OF ARTS IN SPANISH

### Requirements (45 units)

The M.A. in Spanish focuses on the strengthening of the knowledge of Spanish teachers as well as of the intensive of the study literature, linguistics, and culture for those students who will be continuing their advanced studies. The degree is also appropriate for those students seeking employment in the public or private sector in positions that serve the Latino community or require knowledge of Spanish at an advanced level.

### Admission to the Program

In addition to the general requirements of the university, which include a baccalaureate degree from an accredited college, specific requirements for classification in the program are:

1. Completion of an undergraduate major in Spanish from an accredited institution consisting of at least 30 semester units, or 45 quarter units, or equivalent, of upper-division course work;
2. A cumulative undergraduate grade point average of at least 3.0 ("B"), and a minimum grade point average of 3.0 in all Spanish classes;
3. Good standing at the last college attended (verified by student transcripts, see below);
4. Three letters of recommendation;
5. A one- to two-page statement describing the student's professional goals in the area of Spanish;
6. Submission of official transcripts from all previous college work to the department's graduate committee;
7. Verification of oral and written proficiency in Spanish at the ACTFL level of advanced mid or higher as determined by an entrance exam given by the Department of World Languages and Literatures, CSUSB. (This requirement is waived for candidates who received their B.A. in Spanish from CSUSB within the last five years of application to the M.A. in Spanish.);
8. Students who do not meet the above criteria may be admitted as conditionally classified graduate students per approval by the Graduate Committee and may be required to take additional upper-division Spanish undergraduate courses. Students who do not possess a B.A. in Spanish (but have a degree in another discipline) may also be required to take selected upper-division undergraduate courses (earning a minimum grade of "B" (3.0) in each assigned class);
9. Completion of the graduate entrance writing examination through completion of ENG 306 or equivalent course; or completion of the Writing Requirement Exemption Examination

### Advancement to Candidacy

To be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Completed SPAN 606 with a grade of "B" or better;
3. Completed a total of 16 to 20 quarter units of classes with an overall grade point average of 3.0 ("B").

### Requirements for Graduation

1. Advancement to candidacy;
2. Successful completion of 45 quarter units of acceptable graduate work with at least 35 units completed at CSUSB. All course work taken at other institutions must be approved by the Graduate Committee;
3. An overall GPA of at least 3.0 ("B") in all graduate-level course work;
4. Successful completion of SPAN 697 (based on core courses in either option as well as a reading list prepared by the Department of Foreign Languages and Literatures);
5. Submission of appropriate documentation verifying knowledge of a language other than English or Spanish at either the 150 or third quarter (or equivalent) level.
6. The graduation writing requirement is met upon the successful completion of SPAN 697.

### Degree Requirements (45 units)

#### Spanish Language Teaching

Designed for Spanish teachers at the elementary, secondary, and community college level, this track provides students with a strong background in applied linguistics and pedagogical theory, as well as exposure to the literatures, cultures, and the language of the of the Spanish-speaking world.

#### Core Courses (29 units)

1. SPAN 606. Methodology of Graduate Study (4)
2. SPAN 608. History of the Spanish Language (4)
3. SPAN 615. Second Language Acquisition in Spanish (4)
4. SPAN 620. Spanish Linguistics (4)
5. Twelve units taken in education courses which may be selected from the following,
  - EDCI 620. School Curriculum (4)
  - EELB 606. Theory and Practice in Teaching Bilingual Students (4)
  - EELB 611. Spanish Children's Literature for the Bilingual Classroom (4)
  - EELB 612. Social and Cultural Contexts for School Learning (4)
  - EELB 625. Curriculum and Materials for the Bilingual and ESL Classroom (4)
  - ESEC 441. Secondary School Curriculum and Instruction II (4)
  - EESL 536. Crosscultural Teaching (4)
6. SPAN 697. Comprehensive Examination (1)

#### Electives (16 units)

1. Sixteen units of electives of SPAN graduate-level courses in literature, language, and civilization.

#### Hispanic Literature, Linguistics, and Civilization

Designed for students who wish to pursue an in-depth study of Spanish, Spanish American, and Latino literatures along with Spanish linguistics, and to prepare students for further advanced study.

#### Core Courses (29 units):

1. SPAN 606. Methodology of Graduate Research (4)
2. SPAN 608. History of the Spanish Language (4)
3. SPAN 610. Theory and Practice of Literary Criticism in Spanish (4)
4. SPAN 615. Second Language Acquisition in Spanish (4)
5. SPAN 620. Spanish Linguistics (4)
6. SPAN 625. Spanish Peninsular Literature and Culture (4)
7. SPAN 630. Spanish-American Literature and Culture (4)
8. SPAN 697. Comprehensive Exam (1)



## Electives (16 units)

1. Sixteen units of electives chosen from Spanish 500- and 600-level courses. A maximum of eight units from SPAN 515 or 516 may be counted towards this elective category.

## COURSE OFFERINGS IN SPANISH (SPAN)

### Upper Division

#### 515. Seminar in Spanish Peninsular Literature, Culture or Film

Advanced study of the literature and culture of Spain. May be repeated as topics change. Prerequisites: SPAN 302, 318, 395; one class from the SPAN 370 series; and one class from the SPAN 440 series.

- A. Prose Fiction (4 units)
- B. Poetry (4 units)
- C. Drama (4 units)
- D. Essay (4 units)
- E. Author (4 units)
- F. Culture (4 units)
- G. Film (4 units)

#### 516. Seminar in Spanish American Literature, Culture or Film

Advanced study of the literature and culture of Spanish America. May be repeated as topics change. Prerequisites: SPAN 302, 318, 395; one class from the SPAN 370 series; and one class from the SPAN 440 series.

- A. Prose Fiction (4 units)
- B. Poetry (4 units)
- C. Drama (4 units)
- D. Essay (4 units)
- E. Author (4 units)
- F. Culture (4 units)
- G. Film (4 units)

### Graduate/Post-Baccalaureate

May not be taken by undergraduate students.

#### 606. Methodology of Graduate Study

Introduction to bibliography, research techniques, professional discourse styles, and basic critical approaches. This course is a prerequisite to all 600-level courses in the M.A. in Spanish. Prerequisite: graduate standing or consent of the graduate committee. (4 units)

#### 608. History of the Spanish Language

Diachronic study of the development of Spanish from Latin to modern varieties of the language. In-depth analysis of phonological, morphological, and syntactic changes related to relevant events of Spanish and Spanish American history. Formerly SPAN 605. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee. (4 units)

#### 610. Theory and Practice of Literary Criticism in Spanish

Analysis and application of methods of contemporary literary theory and criticism employing principal texts from Spanish and Spanish-American literature. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee. (4 units)

#### 615. Second Language Acquisition in Spanish

Study and application of current techniques and approaches in second language acquisition, including outcomes assessment. Prerequisites: graduate standing, SPAN 320 or equivalent and SPAN 606; or consent of the graduate committee. (4 units)

#### 620. Spanish Linguistics

Intensive study of contemporary issues in Spanish linguistics. A maximum of 12 units may be applied toward the M.A. in Spanish. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee.

- A. Sociolinguistics of the Hispanic World (4 units)
- B. Spanish Dialectology (4 units)
- C. Spanish in the United States (4 units)
- D. Seminar in Spanish Phonetics and Phonology (4 units)

#### 625. Spanish Peninsular Literature and Culture

Intensive study of significant works or a principal author from Spanish Peninsular literature and culture. A maximum of 12 units may be applied toward the M.A. in Spanish. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee.

- A. Prose Fiction (4 units)
- B. Poetry (4 units)
- C. Drama (4 units)
- D. Essay (4 units)
- E. Authors (4 units)
- F. Culture (4 units)

#### 630. Spanish-American Literature and Culture

Intensive study of significant works or a principal author from Spanish-American Literature and Culture, or Latino cultures. A maximum of 12 units may be applied toward the M.A. in Spanish. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee.

- A. Prose Fiction (4 units)
- B. Poetry (4 units)
- C. Drama (4 units)
- D. Essay (4 units)
- E. Author (4 units)
- F. Latino Cultures (4 units)

#### 650. The Spanish Golden Age

Advanced study of the literature of the Spanish sixteenth- and seventeenth centuries. A maximum of eight units may be applied to the M.A. in Spanish. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee.

- A. Don Quixote (4 units)
- B. Drama (4 units)
- C. Prose (4 units)
- D. Poetry (4 units)

#### 651. Studies in Spanish American Literature

Advanced study of the literature of Spanish America from the colonial period to the present. A maximum of eight units may be applied to the M.A. in Spanish. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee.

- A. Colonial (4 units)
- B. Nineteenth Century (4 units)
- C. Twentieth Century (4 units)
- D. Contemporary Women Writers (4 units)
- E. Regional and Indigenous Literatures (4 units)

**652. Seminar in Spanish-American Civilization**

Advanced study of an important contemporary aspect of Spanish-American culture and literature. A maximum of eight units may be applied to the M.A. in Spanish. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee.

- A. Surrealism (4 units)
- B. Post-modernist Literature (4 units)
- C. African Influences in Literature (4 units)
- D. The Novel of the Dictator (4 units)
- E. The Neo-Picaresque Novel (4 units)
- F. Neo-Colonialism (4 units)
- G. Contemporary Film (4 units)

**653. Contemporary Chicano/Latino Literature in Spanish**

Intensive analysis of works by Chicano and Latino writers in Spanish in the United States. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee. (4 units)

**654. Modern Spanish Peninsular Literature**

Advanced study of the literature of the nineteenth and twentieth centuries in Spain. A maximum of eight units may be applied to the M.A. in Spanish. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee.

- A. Nineteenth Century (4 units)
- B. Twentieth Century (4 units)
- C. Contemporary Women Writers (4 units)

**655. Seminar in Applied Linguistics**

Study and discussion of current issues in first and second language acquisition and instruction, as well as topics in the linguistic contrast between Spanish and English. Prerequisites: SPAN 606, 615, and graduate standing; or consent of the graduate committee. (4 units)

**656. Seminar in Spanish Semantics and Pragmatics**

Study of noun and verbal systems of the Spanish language, as found in a variety of discourses, and analysis of forms and functional meaning in social contexts. Prerequisites: graduate standing and SPAN 606, or consent of graduate committee. (4 units)

**697. Comprehensive Examination**

Written and oral examination covering Spanish linguistics, peninsular literature and culture, Spanish-American literature and culture, and Latino cultures in the United States. Examination is based on the core of required classes for the M.A. in Spanish as well as a reading list. Student must pass exam and any retests within one year of completion of the core and elective courses. Exam may be repeated once, and only the sections failed will be retested. Graded credit/no credit. Prerequisite: must be taken in the last quarter before graduation. (1 unit)

**698. Continuous Enrollment for Graduate Candidacy Standing**

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 352, Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0-6 units)

# THEATRE ARTS

## Master of Arts in Theatre Arts

### Department of Theatre Arts

Performing Arts Building, Room 111  
(909) 537-5876 <http://cal.csusb.edu/Depts/TheatreArts/>

**FACULTY:** Michelle Ebert, Kathryn Ervin, Andre Harrington, Lee Lyons, Margaret Perry (Chair), William Peterson, Thomas Provenzano, Johanna Smith, Terry Smith

## MASTER OF ARTS IN THEATRE ARTS

### Requirements (45 units)

The M.A. in Theatre Arts is designed for students who wish to apply advanced theories, methodologies, and technologies of theatre in their careers as theatre artists and educators, and for those who wish to advance from this degree to further graduate work. The program is unique in its flexibility, wide range of theatre education opportunities, and specialized faculty. Students are required to develop focused programs of study.

### Admission to the Program

Students must fulfill all the general requirements for admission to graduate studies at this university. Applications for admission to the program should be sent to the department graduate coordinator and must include:

1. A copy of the undergraduate transcript indicating graduation with a bachelor's degree from an accredited college or university and theatre courses completed;
2. Three letters of recommendation attesting to academic aptitude and creative accomplishments;
3. A one page essay describing life/career goals and the role the applicant sees this degree playing in accomplishing these goals;
4. Completion of the graduate entrance writing requirement.

### Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Selected an advisor with the consent of the faculty member and the approval of the graduate coordinator;
2. Formed a three member advisory committee prior to completion of 16 units;
3. Secured approval from student's advisory committee and graduate coordinator of a course of study, prior to completion of 20 units.

### Requirements for Graduation

1. Advancement to candidacy;
2. A minimum of 45 quarter units of acceptable graduate level work with no fewer than 32 of these units at the 500- or 600-level;
3. A grade point average of at least 3.0 ("B") in all graduate course work and grades of "C" (2.0) or better in all courses in the program;
4. A capstone experience of a project or internship approved by the student's advisory committee and graduate coordinator;
5. Successful completion of TA 699 which also meets the department's graduation writing requirements.

### Degree Requirements (45 units)

1. TA 600. Research Methods in Theatre (4)
2. Eight units chosen from:  
TA 602. Seminar in Dramatic Literature for Stage and Film (4)  
TA 633. Seminar in Theory and Criticism (4)  
TA 650. Seminar in Dramatic Production (4)

3. Four units chosen from:  
TA 620. Applied Theatre Practicum (1-8) for a total of (4)  
TA 683. Advanced Studies in Theatre for Youth (4)
4. Nine units chosen from:  
TA 695. Graduate Project (1-5)  
TA 696. Graduate Internship (1-5)

### Electives (8 units)

1. Eight units chosen from a single area of concentration:  
DAN 450. Choreography (3)  
DAN 481. Creative Dance in the Classroom (4)  
TA 401. History of Musical Theatre (4)  
TA 445. The Camera Eye (4)  
TA 446. Directing II (3)  
TA 462. African-American Theatre and Drama (4)  
TA 463. Asian Theatre (4)  
TA 464. Theatre in the Post-Colonial World (4)  
TA 466. Issues in Gay, Lesbian, Bisexual, and Transgender Theatre (4)  
TA 468. Chicana/o Latina/o Theatre and Drama (4)  
TA 481. Creative Drama in the Classroom (3)  
TA 483. Children's Theatre (4)  
TA 484. Reader's Theatre in the Classroom (3)  
TA 486. Puppetry in the Classroom (3)

### Advanced Electives (8 units)

1. Eight units in a single area of concentration chosen from:  
DAN 580. Advanced Creative Dance (4)  
ENG 511. Creative Writing in Children's Literature (4)  
ENG 535. Multicultural Images in Children's Literature (4)  
TA 505. Criticism of Theatre in Performance (4)  
TA 510. Studies of Major Figures and Genres (4)  
TA 535. Independent Project (1-4)  
TA 579. Theatre in the Elementary Classroom (4)  
TA 580. Advanced Creative Drama in the Classroom (4)  
TA 581. Theatre in the Secondary Classroom (4)

### Culminating Experience (4 units)

1. TA 699. Thesis (4)

## COURSE OFFERINGS IN THEATRE ARTS (TA)

### Upper Division

#### 505. Criticism of Theatre in Performance

Critical analysis of public theatrical performance with an emphasis on the journalistic review. Textual analysis, artistic perception and aesthetic evaluation of acting, directing and design. Both individual and class attendance at several theatrical performances outside of regular meeting times will be required. Prerequisites: TA 302, ENG 306 or consent of instructor. (4 units)

#### 510. Studies of Major Figures and Genres

Advanced study of a selected theatre topic. May be repeated for credit as topics change. (4 units)

#### 520. Theatre Seminar

Literature and theory relative to topics such as: aesthetics, theatre history, drama, dramatic criticism and design. May be repeated for credit as topics change. (4 units)

#### 535. Independent Project

Advanced individual project in any aspect of departmental productions. A total of six units may apply toward the major, a total of 12 units may apply toward graduation. Prerequisite: consent of instructor. (1-4 units)

**555. Independent Study**

Study and analysis culminating in demonstrated expertise in the areas of performance, direction, design or theatre research. A total of six units may apply toward the major, a total of 12 units may apply toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (4 units)

**575. Internship in Theatre Arts**

Supervised study in private or public organizations. A total of 12 units may be applied toward graduation. Generally assumes thirty hours of work/study per unit of credit. Graded credit/no credit. Prerequisite: consent of internship coordinator. (1-6 units)

**579. Theatre in the Elementary Classroom**

Integrating aesthetic perception with creative expression in the elementary classroom through the application of theatrical performance and production techniques. This course includes 15 service learning hours in which students actually direct and create theatre within an elementary school classroom under the supervision of course instructor and classroom teacher. Prerequisite: TA 481 or 484 or consent of instructor. (4 units)

**580. Advanced Creative Drama in the Classroom**

Advanced methods of teaching across the curriculum using process-oriented creative drama techniques. Course concentrates on fostering imagination and self-expression through pantomime, improvisation and play making. Course includes developing creative drama/educational units and lesson plans as well as practical experience in an educational setting. Requires a six hour field component including observation and participation in teaching at an approved setting. Prerequisite: TA 481. (4 units)

**581. Theatre in the Secondary Classroom**

Integrating aesthetic perception with creative expression in the secondary classroom through the application of theatrical performance and production techniques. This course includes 15 service learning hours in which students actually direct and create theatre within a secondary school classroom under the supervision of course instructor and classroom teacher. Prerequisites: TA 302 or ENG 302, and TA 481 or 484. (4 units)

**585. Senior Assessment**

Student preparation of portfolio and self-critiques of artistic/research projects which document academic progress. Formal presentation of this collected material to be evaluated by peers and faculty. Two hours activity. Prerequisite: senior status; must be taken in spring quarter immediately prior to graduation. (1 unit)

**Graduate/Post-Baccalaureate**

May not be taken by undergraduate students.

**600. Research Methods in Theatre**

A survey of methods commonly used in theatrical criticism and their application to research questions including the systematic collection of bibliographic, dramaturgical and aesthetic information to formulate theses, organize and write research papers, or to develop conceptual approaches to production. (4 units)

**602. Seminar in Dramatic Literature for Stage and Film**

Advanced study in particular kinds of dramatic literature and film with special focus on generic problems and issues. May be repeated for credit as topics change. (Also offered as ENG 602. Students may not receive credit for both.) (4 units)

**620. Applied Theatre Practicum**

Advanced study and application of techniques and technologies used in the creation of theatre. (1-8 units)

**633. Seminar in Theory and Criticism**

Major theories which have influenced and motivated theatre practice in western and non-western civilization throughout its development, with an emphasis on the relationship between theory and theatrical performance. (4 units)

**650. Seminar in Dramatic Production**

Advanced studies in theatrical production theories and methods, with special focus on generic issues or problems encountered when transferring dramatic literature to the stage. May be repeated for credit as topics change. (4 units)

**683. Advanced Studies in Theatre for Youth**

Advanced study of a selected theatre topic, including but not limited to: reader's theatre, theatre outreach, Theatre-in-Education (T.I.E.), theatre for social change, playwriting for and with youth, and puppetry. May be repeated for credit as topics change. Prerequisite: consent of instructor. (4 units)

**695. Graduate Project**

Advanced individual project on a specific topic relevant to the student's program of study. Done under direct supervision. Prerequisite: advancement to candidacy. (1-5 units)

**696. Graduate Internship**

Supervised internship experience with a theatre organization, such as a youth theatre, youth outreach program, professional theatre, or other appropriate arts agency. Prerequisite: advancement to candidacy. (1-5 units)

**699. Thesis**

Independent graduate research in theatre arts culminating in a written thesis. (4 units)



# FACULTY

## 2008-2009



**Yuchin Chien**

Professor of Psychology  
OUTSTANDING PROFESSOR 2008

- Susan L. Addington, 1988**  
*Professor of Mathematics*  
B.S. 1976, Marlboro College;  
M.A. 1978, Ph.D. 1981, State University of New York at Stony Brook.
- Mark D. Agars, 1999**  
*Associate Professor of Psychology*  
B.A. 1992, Sienna College;  
M.S. 1996, Ph.D. 1999, Pennsylvania State University.
- Joyce C. Ahlgren, 2003**  
*Lecturer in Mathematics*  
B.A. 1972, University California at Santa Barbara;  
M.A. 2003, California State University, San Bernardino.
- William Aguilar, 1989**  
*Librarian; Vice President for University Advancement*  
B.A. 1970, Adams State College;  
M.S. 1974, University of Wisconsin-Madison;  
Ph.D. 1983, University of Illinois, Urbana.
- Alexander Aitcheson, 2001**  
*Lecturer in Education*  
B.S. 1973, M.S. 1976, Southern Connecticut State University.
- Carolyn B. Aldana, 1995**  
*Professor of Economics; Associate Dean, College of Social and Behavioral Sciences*  
B.A. 1990, California State University, San Bernardino;  
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- Ece Algan, 2006**  
*Assistant Professor of Communication Studies*  
B.S. 1994, Istanbul Teknik University;  
M.A. 1996, Marmara University-Istanbul;  
Ph.D. 2003, Ohio University.
- Jennifer L. Andersen, 1996**  
*Associate Professor of English*  
B.A. 1988, University of California, Los Angeles;  
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- Patsy Andrada, 2005**  
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Ph.D. 1974, University of Chicago.
- Laura Ashcroft, 2003**  
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B.A. 1986, M.A. 1987, Sonoma State University;  
Ph.D. 2002, University of San Francisco.
- Richard Ashcroft, 1989**  
*Professor of Education*  
B.S. Ed. 1966, East Stroudsburg State University;  
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- Parviz Asheghian, 1991**  
*Professor of Economics*  
B.A. 1971, Iranian Institute of Advanced Accounting;  
M.B.A. 1973, University of Detroit; M.A. 1976, University of Florida; Ph.D. 1980, Georgia State University.
- Eun-Ok Baek, 2002**  
*Associate Professor of Education*  
B.A. 1987, M.Ed. 1993, Chinju National University, Korea;  
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## 512 / Faculty

**C. Mo Bahk, 2001**

*Associate Professor of Communication Studies;  
Chair, Department of Communication Studies*  
B.A. 1980, Yonsei University, Seoul, Korea;  
M.A. 1983/1990, State University of New York, Albany;  
Ph.D. 1994, Michigan State University.

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*Lecturer in Education*  
B.A. 1975, M.A. 1982, California State University,  
San Bernardino; DED 1997, University of Laverne.

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**Jace Baker, 2002**

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**Maria V. Balderrama, 1994**

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**Russell J. Barber, 1984**

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**Steven P. Barnes, 2002**

*Lecturer in Physics*  
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**Buckley B. Barrett, 1982**

*Librarian; Head, Automation Services*  
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**Lisa Bartle, 1999**

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**Robert A. Blackey, 1968**

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**Sheldon E. Bockman, 1973**

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**Sarah Boeh, 1989**

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**528 / Faculty****Emeritus Faculty****Richard T. Ackley***Professor of Political Science, Emeritus, 1990***Gene L. Andrusco***Associate Professor of Accounting and Finance, Emeritus, 2002***Elliott R. Barkan***Professor of History, Emeritus, 2002***Joe Bas***Professor of World Languages and Literatures, Emeritus, 1992***Jacques Benzakein***Professor of World Languages and Literatures, Emeritus, 2006***Frank Benson***Professor of Accounting and Finance, Emeritus, 2001***Anand Bhatia***Assistant Professor of Information and Decision Sciences, Emeritus, 2001***Cynthia Bird***Professor of Accounting and Finance, Emeritus, 2004***Marty Bloomberg***Librarian, Emeritus, 1994***Aubrey Bonnett***Dean, College of Social and Behavioral Sciences, Emeritus, 1994***Mike Boorum***Professor of Marketing, Emeritus, 2000***Edward J. Bostley***Professor of Music, Emeritus 2003***David Bourquin***Librarian, Emeritus, 2004***Klaus Brasch***Professor of Biology, Emeritus, 2006***Michael R. Burgess***Librarian, Emeritus, 2005***Katharine Busch***Associate Professor of Education, Emeritus, 1998***Renate Caine***Professor of Education, Emeritus, 1999***John S. Chaney***Professor of Management, Emeritus, 2003***C. Charles Christie***Professor of Public Administration, Emeritus, 2004***Michael Clarke***Professor of Public Administration, Emeritus, 2006***John A. Conley***Dean, College of Social and Behavioral Sciences, Emeritus, 2007***Frances Coles***Professor of Criminal Justice, Emeritus, 2006***Gloria A. Cowan***Professor of Psychology, Emeritus, 2002***John H. Craig***Professor of Chemistry and Biochemistry, Emeritus, 2005***James D. Crum***Dean, College of Natural Sciences, Emeritus, 1992***David L. Decker***Professor of Sociology, Emeritus, 2005***Esteban Diaz***Professor of Education, Emeritus, 2004***G. Keith Dolan***Professor of Education, Emeritus, 1991***Leo G. Doyle***Professor of Art, Emeritus, 1971***Richard Eberst***Professor of Health Science and Human, Emeritus, 2004***Stuart Ellins***Professor of Psychology, Emeritus, 2004***Bertram H. Fairchild, Jr.***Professor of English, Emeritus, 2005***Lanny B. Fields.***Professor of History, Emeritus, 2004***Loren Filbeck***Professor of Music, Emeritus, 2004***Cheryl F. Fischer***Professor of Education, Emeritus, 2006***Robert G. Fisk***Professor of Education, Emeritus, 1973***Jerry Freischlag***Professor of Kinesiology, Emeritus, 2001***Louise Fulton***Professor of Education, Emeritus, 2001***Ernest Garcia***Professor of Education, Emeritus, 1990***Margaret K. Gibbs***Professor of Administration, Emeritus, 1980***Morley Glicken***Professor of Social Work, Emeritus, 2000***Mirta A. Gonzalez***Professor of World Languages and Literatures, Emeritus, 2006***Bruce Golden***Professor of English, Emeritus, 2004***Carol F. Goss***Professor of Political Science, Emeritus, 1988***Joseph W. Gray***Associate Professor of Education, Emeritus, 2000***Sue Greenfeld***Professor of Management, Emeritus, 2005***Richard Griffiths***Professor of Education, Emeritus, 2000***John E. Hafstrom***Professor of Mathematics, Emeritus, 1979***Joan T. Hallett***Professor of Mathematics, Emeritus, 2006***Diane F. Halpern***Professor of Psychology, Emeritus, 2001*

**Dalton Harrington***Professor of Biology, Emeritus, 1994***Robert R. Harrison***Professor of Art, Emeritus, 1972***Charles V. Hartung***Associate Professor of English, Emeritus, 1977***Melvin G. Hawkins***Professor of Social Work, Emeritus, 1992***John Heeren***Professor of Sociology, Emeritus, 2007***Craig E. Henderson.***Student Services Professional, Emeritus, 2004***Beverly L. Hendricks***Dean, College of Arts and Letters, Emeritus, 2000***Linvol Henry***Professor of Accounting and Finance, Emeritus, 2004***Mildred M. Henry***Professor of Education, Emeritus, 1983***Philip L. Herold***Associate Professor of Psychology, Emeritus, 1992***H. Arthur Hoverland***Professor of Accounting and Finance, Emeritus, 1992***Irvin Howard***Professor of Education, Emeritus, 2004***Sherry M. Howie***Professor of Education, Emeritus, 2003***Dennis Ikenberry***Professor of Computer Science, Emeritus, 2000***Harold A. Jambor***Lecturer in Sociology, Emeritus, 1980***Kenneth Johns***Professor of Education, Emeritus, 2004***Jorun Johns***Professor of World Languages and Literature, Emeritus, 2000***Dorothy Johnson***Professor of Nursing, Emeritus, 1983***Paul J. Johnson***Professor of Philosophy, Emeritus, 1994***Marshall Jung***Professor of Social Work, Emeritus, 2000***Lee H. Kalbus***Professor of Chemistry, Emeritus, 1994***Julius D. Kaplan***Professor of Art, Emeritus, 2003***Martha Kazlo***Director, Counseling and Health, Emeritus, 2004***Rauf A. Khan***Professor of Accounting and Finance, Emeritus, 2001***Brij B. Khare***Professor of Political Science, Emeritus, 1999***Nikolai E. Khokhlov***Professor of Psychology, Emeritus, 1992***Jeanne King***Professor of Management, Emeritus, 2007***Adria Klein***Professor of Education, Emeritus, 2000***Barry Knight***Professor of Accounting and Finance, Emeritus, 2000***Nathan Kravetz***Professor of Education, Emeritus, 1985***Guenther G. Kress***Professor of Public Administration, Emeritus, 2005***Joan Kritzberg***Professor of Management, Emeritus, 2000***Ellen Kronowitz***Professor of Education, Emeritus, 2004***Kevin Lamude***Professor of Communication Studies, Emeritus, 2004***Kenneth E. Lane***Professor of Education, Emeritus, 2006***Janice Layton***Professor of Nursing, Emeritus, 2000***Robert A. Lee***Professor of English, Emeritus, 1992***Michael LeMay***Professor of Political Science, Emeritus, 2004***Steven M. Levy***Professor of Management, Emeritus, 2000***Eldon Lewis***Professor of Accounting and Finance, Emeritus, 2001***Roger Lintault***Professor of Art, Emeritus, 2000***Joseph E. Lovett***Professor of Health Science and Human Ecology, Emeritus, 2006***Ward M. McAfee***Professor of History, Emeritus, 2002***Loralee MacPike***Professor of English, Emeritus, 1997***Jack McDonnell***Professor of Information and Decision Sciences, Emeritus, 2000***Mary L. McGregor***Associate Professor of Nursing, Emeritus, 1992***Sarojam Mankau***Professor of Biology, Emeritus, 1994***Kenneth A. Mantei***Professor of Chemistry and Biochemistry, Emeritus, 2005***Norton E. Marks***Professor of Marketing, Emeritus, 2005***Carolyn Martin***Professor of Kinesiology, Emeritus, 2004***Nancy Mary***Professor of Social Work, Emeritus, 2007*

**530 / Faculty****Audrey Mathews***Professor of Public Administration, Emeritus, 2006***Clark Mayo***Professor of English, Emeritus, 2001***Susan Meisenhelder***Professor of English, Emeritus, 2006***Thomas Meisenhelder***Professor of Sociology, Emeritus, 2004***Steven Mintz***Professor of Accounting and Finance, Emeritus, 2003***Kenton L. Monroe***Professor of Psychology, Emeritus, 1988***Joseph R. Moran***Professor of Art, Emeritus, 2003***Bernhardt L. Mortensen***Associate Professor of Sociology, Emeritus, 1978***Richard Moss***Professor of Economics, Emeritus, 2000***T. Patrick Mullen***Professor of Education, Emeritus, 2002***James Mulvihill***Professor of Geography and Environmental Sciences, Emeritus, 2007***Art Nelson***Librarian, Emeritus, 1991***Frederick A. Newton***Professor of Psychology, Emeritus, 2005***David H. Null***Associate Professor of Health Science and Human Ecology, Emeritus, 2002***C. Michael O'Gara***Professor of Physical Education, Emeritus, 1977***Shari Oliver***Student Services Professional, Emeritus, 2006***Walter Oliver***Professor of World Languages and Literature, Emeritus 2001***Theron Pace***Student Services Professional, Emeritus, 2003***E. Philip Page***Professor of English, Emeritus, 2006***Elinore H. Partridge***Associate Professor of English, Emeritus, 2003***Mary G. Patterson***Professor of Nursing, Emeritus, 1985***Gordon Patzer***Professor of Accounting and Finance, Emeritus, 2004***Cynthia Paxton***Professor of Health Science and Human Ecology, Emeritus, 2007***Clifford T. Paynton***Professor of Sociology, Emeritus, 1992***Stuart M. Persell***Professor of History, Emeritus, 2002***John M. Pfau***Professor of History, President, Emeritus, 1982***James C. Pierson***Professor of Anthropology, Emeritus 2005***Lee Porter***Dean of Extended Education, Emeritus, 1998***Reginald Price***Professor of Kinesiology, Emeritus, 2005***Jerrold Pritchard***Professor of Music, Emeritus, 2004***Johnnie Ann Ralph***Dean, Library, Emeritus, 2007***James Rogers***Professor of Management, Emeritus, 2001***Richard Rowland***Professor of Geography and Environmental Sciences, Emeritus, 2007***Amanda Sue Rudisill***Professor of Theatre Arts, Emeritus, 1997***Mireille G. Rydell***Professor of World Languages and Literatures, Emeritus, 1988***Elisabeth Ryland***Professor of Management, Emeritus, 2007***Judith M. Rymer***Professor of Education, Emeritus, 2002***Ralph Salmi***Professor of Political Science, Emeritus, 2007***Arthur Saltzman***Professor of Marketing, Emeritus, 2000***Richard Saylor***Professor of Music, Emeritus, 1991***Christine Schalow***Professor of Management, Emeritus, 2007***David Schalow***Professor of Accounting and Finance, Emeritus, 2007***Ed Schneiderhan***Student Services Professional, Emeritus, 2005***Peter R. Schroeder***Professor of English, Emeritus, 2003***John Scribner***Professor of Accounting and Finance, Emeritus, 2004***Robert Senour***Professor of Education, Emeritus, 2000***David Shichor***Professor of Criminal Justice, Emeritus, 1997***Kent Schofield***Professor of History, Emeritus, 2001***Hossein Shalchi***Professor of Accounting and Finance, Emeritus, 2004***William L. Slout***Professor of Theatre Arts, Emeritus, 1992*



**Alexander Sokoloff***Professor of Biology, Emeritus, 1990***Gordon E. Stanton***Professor of Education, Emeritus, 1988***Helena Villacres Stanton***Associate Professor of Education, Emeritus, 1990***Robert G. Stein***Professor of Mathematics, Emeritus, 2004***David Stine***Professor of Education, Emeritus, 2001***Dolores Tanno***Professor of Communication Studies, Emeritus, 2000***James D. Thomas***Professor of Political Science, Emeritus, 1990***Elton N. Thompson***Professor of Education, Emeritus, 1983***Kenneth Thygerson***Professor of Accounting and Finance, Emeritus, 2000***John Tibbals***Librarian, Emeritus, 1999***Thomas C. Timmreck***Professor of Health Science and Human Ecology,  
Emeritus, 2003***Arthur J. Townley***Professor of Education, Emeritus, 1999***Michael Trubnick***Associate Professor of Accounting and Finance, Emeritus, 2003***Steven R. Wagner***Associate Professor of Education, Emeritus, 1997***Carl P. Wagoner***Professor of Criminal Justice, Emeritus, 1997***William Warehall***Professor of Art, Emeritus, 1999***Del LaVerne Watson***Professor of Nursing, Emeritus, 1989***Brian Watts***Professor of Public Administration, Emeritus, 2004***L. Curtis Westbrook, Jr.***Professor of Accounting and Finance, Emeritus, 2004***Daniel Whitaker***Professor of World Languages and Literatures, Emeritus, 2006***Edward M. White***Professor of English, Emeritus, 1996***Franklin P. Williams III***Professor of Criminal Justice, Emeritus, 2000***Ruth Wilson***Professor of Biology, Emeritus, 2001***Janet Woerner***Professor of Education, Emeritus, 2007***Alvin Wolf***Professor of Education, Emeritus, 2002***Don Woodford***Professor of Art, Emeritus, 2001***Donna M. Ziebarth***Associate Professor of Nursing, Emeritus, 1994***Special Appointments****Beverly Brule, 2006***Studio Music Instructor**B.A., California State University, San Bernardino, M.M.,  
University of Southern California***Adrian Dumitrescu, 2002***Studio Music Instructor**B.M., M.M. Loma Linda University.***Nancy Glen, 2004***Studio Music Instructor**B.S. Kent State University; M.M. 1996, University of Northern  
Colorado; D.M. 2001, University of Colorado, Greeley.***Stuart C. Green, 1998***Studio Music Instructor**B.M. 1994, M.M. 1997, University of Redlands.***Larry Johansen, 2006***Studio Music Instructor**B.A., Fresno State University, M.M., University of Southern  
California***Gary Long, 1997***Studio Music Instructor**B.M. 1995, University of Oregon; M.M. 1997, Juilliard School  
of Music.***Ana Maria Maldonado, 2001***Studio Music Instructor**B.M. 1971, Texas Tech University; M.M. 1975, University of  
Southern California.***David Scott, 2002***Studio Music Instructor**B.M. 1982, University of Iowa; M.M. 1986, D.M.A. 1998,  
University of Southern California.***Rebecca Tomlinson, 2004***Studio Music Instructor**B.M. 1996, University of Redlands; M.M. 2000, D.M.A. 2003,  
University of California, Los Angeles.***Lisa Geering Tomoff, 2005***Studio Music Instructor**B.M., Indiana University School of Music.***Stewart Udem, 2004***Studio Music Instructor**B.A. 2001, California Baptist University.***Jon Usher, 2000***Studio Music Instructor**B.M., M.M., University of Redlands.***Scott Vance, 1990***Studio Music Instructor**B.M. 1975, M.M. 1981, University of Redlands.*

# APPENDIX

## Availability of Institutional and Financial Assistance Information

The following information concerning student financial assistance may be obtained from Roseanna Ruiz, associate director of financial aid, UH-151, University Hall, (909) 537-7800:

1. A description of the federal, state, institutional, local, and private student financial assistance programs available to students who enroll at California State University, San Bernardino;
2. For each aid program, a description of the procedures and forms by which students apply for assistance, student eligibility requirements, criteria for selecting recipients from the group of eligible applicants, and criteria for determining the amount of a student's award;
3. A description of the rights and responsibilities of students receiving financial assistance including federal Title IV student assistance programs, and criteria for continued student eligibility under each program;
4. The satisfactory academic progress standards that student must maintain for the purpose of receiving financial assistance and criteria by which a student who has failed to maintain satisfactory progress may reestablish eligibility for financial assistance;
5. The method by which financial assistance disbursements will be made to students and the frequency of those disbursements;
6. The terms of any loan received as part of the student's financial aid package, a sample loan repayment schedule, and the necessity for repaying loans;
7. The general conditions and terms applicable to any employment provided as part of the student's financial aid package;
8. The responsibility of California State University, San Bernardino for providing and collecting exit counseling information for all student borrowers under the federal loan programs; and
9. The terms and conditions for deferral of loan payments for qualifying service under the Peace Corps Act, the Domestic Volunteer Service Act of 1973, or comparable volunteer community service.

Information concerning the cost of attending California State University, San Bernardino is available from Roseanna Ruiz, director of financial aid, UH-151, University Hall, (909) 537-5227, and includes fees and tuition (where applicable); the estimated costs of books and supplies; estimates of typical student room and board costs and typical commuting costs; and, if requested, additional costs for specific programs.

Information concerning the refund policies of California State University, San Bernardino for the return of unearned tuition and fees or other refundable portions of institutional charges is available from the Office of Student Accounts, Sierra Hall, Room 119, (909) 537-5162.

Information concerning policies regarding the return of federal Title IV student assistance funds as required by regulations is available from Roseanna Ruiz, director of financial aid, UH-151, University Hall, (909) 537-7800.

Information regarding special facilities and services available to students with disabilities may be obtained from Beth Jaworski, director of Services to Students with Disabilities, Room 235, University Hall, (909) 537-5238.

Information concerning athletic opportunities available to male and female students and the financial resources and personnel that CSUSB dedicates to its men's and women's teams may be obtained from Nancy Simpson, director of athletics, HP-108, (909) 537-5011.

Information concerning teacher preparation programs, including the pass rate on teacher certification examinations, may be obtained from the Teacher Education Office, (909) 537-5603.

Information concerning policies, procedures, and facilities for students and others to report criminal actions or other emergencies occurring on campus may be obtained from Mr. Bob Miller, director of public safety, University Police, Room 125, (909) 537-5165.

Information concerning annual campus security report may be obtained from Mr. Bob Miller, director of public safety, University Police, Room 125, (909) 537-5165.

Information concerning the prevention of drug and alcohol abuse and rehabilitation programs may be obtained from Ms. Helga Kray, assistant vice president, student affairs, University Hall, Room 231, (909) 537-5165.

Information regarding student retention and graduation rates, and if available, the number and percentage of students completing the program in which the student is enrolled or has expressed interest may be obtained from Dr. Craig Henderson, Judicial Affairs Officer, Office of the Vice President for Student Affairs, University Hall, Room 231, (909) 537-5185.

Information concerning grievance procedures for students who feel aggrieved in their relationships with the university, its policies, practices and procedures, or its faculty and staff may be obtained from the Judicial Affairs Officer, Office of the Vice President for Student Affairs, University Hall, Room 231, (909) 537-5185.

The federal **Military Selective Service Act** (the "Act") requires most males residing in the United States to present themselves for registration with the Selective Service System within thirty days of their eighteenth birthday. Most males between the ages of 18 and 25 must be registered. Males born after December 31, 1959 may be required to submit a statement of compliance with the Act and regulations in order to receive any grant, loan or work assistance under specified provisions of existing federal law. In California, students subject to the Act who fail to register are also ineligible to receive need-based student grants funded by the state or a public postsecondary institution.

Selective Service registration forms are available at any U.S. Post Office, and many high schools have a staff member or teacher appointed as a Selective Service Registrar. Applicants for financial aid can also request that information provided on the Free Application for Federal Student Aid (FAFSA) be used to register them with the Selective Service. Information on the Selective Service System is available and the registration process may be initiated online at [http:// www.sss.gov](http://www.sss.gov).

## Immigration Requirements for Licensure

The Personal Responsibility and Work Opportunity Reconciliation ACT of 1996 (P.L. 104-193), also known as the Welfare Reform Act, includes provisions to eliminate eligibility for federal and state public benefits for certain categories of lawful immigrants as well as benefits for all illegal immigrants.

Students who will require a professional or commercial license provided by a local, state or federal government agency in order to engage in an occupation for which the CSU may be training them must meet the immigration requirements of the Personal Responsibility and Work Opportunity Reconciliation Act to achieve licensure. Information concerning these requirements is available from the International Student Services Office, UH-235, (909) 537-5193.

## Determination of Residence for Nonresident Tuition Purposes

University requirements for establishing residency are independent from those of other types of residency, such as for tax purposes, or other state or institutional residency. A resident for tuition purposes is someone who meets the requirements set forth in the Uniform Student Residence Requirements. These laws governing residence for tuition purposes at the California State University are California Education Code sections 68000-68090, 68120-68134, and 89705-89707.5, and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41900-41916. This material can be viewed on

the Internet by accessing the California State University's website at [www.calstate.edu/GC/resources.shtml](http://www.calstate.edu/GC/resources.shtml). These regulations were promulgated not to determine whether a student is a resident or nonresident of California, but rather to determine whether a student should pay University fees on an in-state or out-of-state basis.

Each campus's Admissions Office is responsible for determining the residence status of all new and returning students based on the Application for Admission, Residency Questionnaire, Reclassification Request Form, and, as necessary, other evidence furnished by the student. A student who fails to submit adequate information to establish eligibility for resident classification will be classified as a nonresident.

Generally, establishing California residence for tuition purposes requires a combination of physical presence and intent to remain indefinitely. An adult who, at least one full year prior to the residence determination date for the term in which enrollment is contemplated, can demonstrate both physical presence in the state combined with evidence of intent to remain in California indefinitely may establish California residence for tuition purposes. A minor normally derives residence from the parent(s) with whom they reside with or most recently resided.

Evidence demonstrating intent can vary from case to case and will include, and is not limited to, the absence of residential ties to any other state, California voter registration and voting in California elections; maintaining California vehicle registration and driver's license; maintaining active California bank accounts; filing California income tax returns and listing a California address on federal tax returns, owning residential property or occupying or renting an apartment where permanent belongings are kept, maintaining active resident memberships in California professional or social organizations; and maintaining a permanent military address and home of record in California.

Non-citizens establish residence in the same manner as citizens, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States.

Exceptions to the general residence requirements are contained in California Education Code sections 68070-68084 and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 419060 to 41906.5, and include, but are not limited to, members of the military and their dependents, certain credentialed employees of school districts and most students who have attended three years of high school in California and graduated or attained the equivalent. Whether an exception applies to a particular student cannot be determined before the submission on an application for admission and, as necessary, additional supporting documentation. Because neither campus nor Chancellor's Office staff may give advice on the application of these laws, applicants are strongly urged to review the material for themselves and consult with a legal advisor.

Nonresident students seeking reclassification are required to complete a supplemental questionnaire including questions concerning their financial dependence on parents who cannot satisfy University requirements for classification as residents for tuition purposes, which will be considered along with physical presence and intent in determining reclassification. The student who is in the state for educational purposes only does not gain the status of resident regardless of the length of the student's stay in California.

In general, an unmarried minor citizen or noncitizen (a person under 18 years of age) derives legal residence from the parent with whom the minor maintains or last maintained his or her place of abode. The residence of an unmarried minor who has a parent living cannot be changed by the minor's own act, by the appointment of a legal guardian or by the relinquishment of a parent's right of control.

A married person may establish his or her residence, independent of his or her spouse.

The general rule is that a student must have been a California resident for at least one year immediately preceding the residence

determination date in order to qualify as a "resident student" for tuition purposes. A residence determination date is set for each academic term and is the date from which residence is determined for that term.

Residence determination dates are:

Quarter	Determination Date
Fall	September 20
Winter	January 5
Spring	April 1
Summer	July 1

The residence determination dates for the four stages on Cal-State TEACH are as follows:

Stage 1	September 20
Stage 2	January 5
Stage 3	June 1
Stage 4	September 20

Students classified as non-residents may appeal a final campus decision within 120 days of notification by the campus. A campus residence classification appeal must be in writing and submitted to: The California State University, Office of General Counsel, 401 Golden Shore, 4th Floor, Long Beach, CA 90802-4210. The Office of General Counsel can either decide the appeal or send the matter back to the campus for further review.

Students incorrectly classified as residents or incorrectly granted an exception from nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is also subject to discipline pursuant to Section 41301 of Title 5 of the California Code of Regulations.

Resident students who become nonresidents or who no longer meet the criteria for an exception must immediately notify the Office of Admissions and Student Recruitment. Applications for a change in classification with respect to a previous term are not accepted.

Changes may have been made in the rate of nonresident tuition and in the statutes and regulations governing residence for tuition purposes in California between the time this information is published and the relevant residence determination date. Students are urged to review the statutes and regulations stated above.

## Privacy Rights of Students in Education Records

The federal Family Education Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (34 C.F.R. 99) set out requirements designed to protect student's privacy in their records maintained by the campus. The statute and regulations govern access to student's records maintained by the campus, and the release of such records. The law provides that the campus must give students access to most records directly related to the student, and must also provide opportunity for a hearing to challenge such if the student claims they are inaccurate, misleading or otherwise inappropriate. The right to a hearing under this law does not include any right to challenge the appropriateness of a grade determined by the instructor. The law generally requires the institution to receive a student's written consent before releasing personally identifiable data about the student. The institution has adopted a set of policies and procedures governing implementation of the statutes and the regulations. Copies of these policies and procedures may be obtained at the office of the vice president for student services. Among the types of information included in the campus statement of policies and procedures are: 1) the types of student records maintained and the information they contain; 2) the official responsible for maintaining each type of record; 3) the location of access lists indicating persons requesting or receiving information from the record; 4) policies for reviewing and expunging records; 5) student access right to their records; 6) the procedures for challenging the content of student records; 7) the cost to be charged for reproducing copies of records,



and 8) the right of the student to file a complaint with the Department of Education. The Department of Education has established an office and review board to investigate complaints and adjudicate violations. The designated office is: Family Policy Compliance Office, U.S. Department of Education, Washington, D.C. 20202-4605.

The campus is authorized under the Act to release "directory information" concerning students. Directory information may include the student's name, address, telephone listing, electronic mail address, photograph, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, grade level, enrollment status, degrees, honors and awards received, and the most recent previous educational agency or institution attended by the student. The above designated information is subject to release by the campus at any time unless the campus has received prior written objection from the student specifying information which the student requests not be released. Written objections should be sent to the office of the vice president for student services.

The campus is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. These persons have responsibilities in the campus' academic, administrative or service functions and who have reason for using student records associated with their campus or other related academic responsibilities.

Student records may also be disclosed to other persons or organizations under certain conditions (e.g. as part of accreditation or program evaluation; in response to a court order or subpoena; in connection with financial aid; or to other institutions to which the student is transferring).

## Career Placement

The Career Development Center may furnish, upon request, information about the employment of students who graduate from programs or courses of study preparing students for a particular career field. This information includes data concerning the average starting salary and the percentage of previously enrolled students who obtained employment. The information may include data collected from either graduates of the campus or graduates of all campuses in the California State University system.

## Student Conduct

### §41301. Standards for Student Conduct

The university is committed to maintaining a safe and healthy living and learning environment for students, faculty, and staff. Each member of the campus community must choose behaviors that contribute toward this end. Student behavior that is not consistent with the Student Conduct Code is addressed through an educational process that is designed to promote safety and good citizenship and, when necessary, impose appropriate consequences.

## Student Responsibilities

Students are expected to be good citizens and to engage in responsible behaviors that reflect well upon their university, to be civil to one another and to others in the campus community, and contribute positively to student and university life.

### Unacceptable Student Behaviors:

The following behavior is subject to disciplinary sanctions:

1. Dishonesty, including:
  - a. Cheating, plagiarism, or other forms of academic dishonesty that are intended to gain unfair academic advantage.
  - b. Furnishing false information to a University official, faculty member, or campus office.
  - c. Forgery, alteration, or misuse of a University document, key, or identification instrument.
  - d. Misrepresenting oneself to be an authorized agent of the University or one of its auxiliaries.
2. Unauthorized entry into, presence in, use of, or misuse of University property.

3. Willful, material and substantial disruption or obstruction of a University-related activity, or any on-campus activity.
4. Participating in an activity that substantially and materially disrupts the normal operations of the University, or infringes on the rights of members of the University community.
5. Willful, material and substantial obstruction of the free flow of pedestrian or other traffic, on or leading to campus property or an off-campus University related activity.
6. Disorderly, lewd, indecent, or obscene behavior at a University related activity, or directed toward a member of the University community.
7. Conduct that threatens or endangers the health or safety of any person within or related to the University community, including physical abuse, threats, intimidation, harassment, or sexual misconduct.
8. Hazing, or conspiracy to haze. Hazing is defined as any method of initiation or pre-initiation into a student organization or student body, whether or not the organization or body is officially recognized by an educational institution, which is likely to cause serious bodily injury to any former, current, or prospective student of any school, community college, college, university or other educational institution in this state (Penal Code 245.6), and in addition, any act likely to cause physical harm, personal degradation or disgrace resulting in physical or mental harm, to any former, current, or prospective student of any school, community college, college, university or other educational institution. The term "hazing" does not include customary athletic events or school sanctioned events.  
Neither the express or implied consent of a victim of hazing, nor the lack of active participation in a particular hazing incident is a defense. Apathy or acquiescence in the presence of hazing is not a neutral act, and is also a violation of this section.
9. Use, possession, manufacture, or distribution of illegal drugs or drug-related paraphernalia, (except as expressly permitted by law and University regulations) or the misuse of legal pharmaceutical drugs.
10. Use, possession, manufacture, or distribution of alcoholic beverages (except as expressly permitted by law and University regulations), or public intoxication while on campus or at a University related activity.
11. Theft of property or services from the University community, or misappropriation of University resources.
12. Unauthorized destruction, or damage to University property or other property in the University community.
13. Possession or misuse of firearms or guns, replicas, ammunition, explosives, fireworks, knives, other weapons, or dangerous chemicals (without the prior authorization of the campus president) on campus or at a University related activity.
14. Unauthorized recording, dissemination, or publication of academic presentations (including handwritten notes) for a commercial purpose.
15. Misuse of computer facilities or resources, including:
  - a. Unauthorized entry into a file, for any purpose.
  - b. Unauthorized transfer of a file.
  - c. Use of another's identification or password.
  - d. Use of computing facilities, campus network, or other resources to interfere with the work of another member of the University Community.
  - e. Use of computing facilities and resources to send obscene or intimidating and abusive messages.
  - f. Use of computing facilities and resources to interfere with normal University operations.
  - g. Use of computing facilities and resources in violation of copyright laws.
  - h. Violation of a campus computer use policy.
16. Violation of any published University policy, rule, regulation or presidential order.



17. Failure to comply with directions of, or interference with, any University official or any public safety officer while acting in the performance of his/her duties.
18. Any act chargeable as a violation of a federal, state, or local law that poses a substantial threat to the safety or well-being of members of the University community, to property within the University community or poses a significant threat of disruption or interference with University operations.
19. Violation of the Student Conduct Procedures, including:
  - a. Falsification, distortion, or misrepresentation of information related to a student discipline matter.
  - b. Disruption or interference with the orderly progress of a student discipline proceeding.
  - c. Initiation of a student discipline proceeding in bad faith.
  - d. Attempting to discourage another from participating in the student discipline matter.
  - e. Attempting to influence the impartiality of any participant in a student discipline matter.
  - f. Verbal or physical harassment or intimidation of any participant in a student discipline matter.
  - g. Failure to comply with the sanction(s) imposed under a student discipline proceeding.
20. Encouraging, permitting, or assisting another to do any act that could subject him or her to discipline.

#### Application of this Code

Sanctions for the conduct listed above can be imposed on applicants, enrolled students, students between academic terms, graduates awaiting degrees, and students who withdraw from school while a disciplinary matter is pending. Conduct that threatens the safety or security of the campus community, or substantially disrupts the functions or operation of the University is within the jurisdiction of this Article regardless of whether it occurs on or off campus. Nothing in this Code may conflict with Education Code section 66301 that prohibits disciplinary action against students based on behavior protected by the First Amendment.

#### Procedures for Enforcing this Code

The Chancellor shall adopt procedures to ensure students are afforded appropriate notice and an opportunity to be heard before the University imposes any sanction for a violation of the Student Conduct Code.

**41302. Disposition of fees; Campus Emergency; Interim Suspension.** The President of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such students for the semester, quarter or summer session in which he or she is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of campus emergency, as determined by the President of the individual campus, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The President may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or designated representative, enter any campus of the California State University other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

## Drug-Free Schools and Communities Act Amendment of 1989

As required by the Drug-Free Schools and Communities Act Amendments of 1989, university standards of student conduct prohibit the unlawful possession, use, or distribution of illicit drugs and alcohol by students on university property or as part of any university activity.

Notwithstanding other penalties provided by local, state and federal law which prohibit the above activity, under Title 5, California Code of Regulations, 41301-41304, university disciplinary sanctions which may be imposed are expulsion, suspension, probation or lesser sanctions.

Studies on the effects of controlled substances have demonstrated that the use of such substances can lead to addiction, lung damage, heart damage, brain damage, unpredictable behavior, paranoia and other physical and mental disorders.

The Counseling Center can assist students in locating available drug or alcohol counseling, treatment or rehabilitation or re-entry programs. The Counseling Center is located in the Health Center, Room 136, (909) 537-5040.

New Federal Financial Aid Regulations Pertaining to Students Who Have Been Convicted of Possession of a Controlled Substance, or Who Have Been Convicted of the Sale of a Controlled Substance

Effective July 1, 2000 the Secretary of Education proposes to add Sec. 668.40 (a) and (b) to implement statutory provisions to deny financial aid to students convicted of sale or possession of a controlled substance. The periods of ineligibility, which begin as of the date of conviction, are:

- If convicted for the first time of an offense involving the possession of a controlled substance, the ineligibility period is one year.
- If convicted for the second time of an offense involving the possession of a controlled substance, the ineligibility period is for two years.
- If convicted for the third time of an offense involving the possession of a controlled substance, the ineligibility period is indefinite.
- If convicted for the first time of an offense involving the sale of a controlled substance, the ineligibility period is for one year.
- If convicted for the second time of an offense involving the sale of a controlled substance, the ineligibility period is indefinite.

Note that for purposes of determining a student's eligibility for Title IV assistance, a conviction means a conviction that is on a student's record at the time the student's eligibility for financial aid is being determined. Therefore, a conviction that was reversed, set aside, or removed from the student's record is not relevant.

The Higher Education Act further provides that a student can regain eligibility, regardless of the number or type of convictions on the student's record, by successfully completing a drug rehabilitation program that complies with criteria established by the Secretary of Education and that includes two unannounced drug tests.

Copies of the complete regulation and further information are available at the financial aid office in University Hall, Room 150.

## Student Right-to-Know and Campus Security Act

The Student Right-to-Know and Campus Security Act, as amended by the Higher Education Technical amendments of 1991, Public Law 102-26 requires the university to provide the following information. The university produces and makes available graduation rates for all students and for those who receive athletically-related financial aid, and produces and makes available information on campus crime and security. Information on graduation rates for all students is available at the Office of Records, Registration and Evaluations, information about graduation rates for those who receive athletically-related financial aid is available at the Office of the Vice President, University Advancement, and information about crime rates and security is available at Public Safety. Information on all three areas may be available from the reference desk at the Pfau Library.

Summarizing the graduation rates for all students, by fall 2003, or six years after entering the CSU, 44 percent of the fall 1997 entering freshman class had earned the bachelor's degree at the CSU campus of first attendance, with an additional 10% still enrolled. The Cal State, San Bernardino entering freshman statistics were similar with 42% graduating within six years while another 10% were still enrolled. Not reflected in these statistics are the 3 or 4 percent of the freshman class who earn a degree at another CSU after transferring.

Historical trends indicate the CSU systemwide graduation rate is expected eventually to reach about 61% percent. A graduation rate of over 60 percent is on a par with the best of peer state universities and colleges.

## Average Support Cost Per Full-Time Equivalent Student and Sources of Funds

The total support cost per full-time equivalent student includes the expenditures for current operations, including payments made to students in the form of financial aid, and all fully reimbursed programs contained in state appropriations. The average support cost is determined by dividing the total cost by the number of full-time equivalent students (FTES). The total CSU 2007/08 final budget amounts were \$2,985,874,000 from state General Fund appropriations (not including capital outlay funding), \$1,130,641,000 from State University Fee (SUF) revenue, \$369,741,000 from other fee revenues and reimbursements for a total of \$4,486,256,000. The number of projected 2007/08 full-time equivalent students (FTES) is 356,296. The number of full-time equivalent students is determined by dividing the total academic student load by 15 units per term (the figure used here to define a full-time student's academic load).

The 2007/08 average support cost per full-time equivalent student based on General Fund appropriation and State University Fee revenue only is \$11,553 and when including all sources as indicated below is \$12,567. Of this amount, the average student fee support per FTE is \$3,864, which includes all fee revenue in the CSU Operating Fund (e.g. State University Fee, nonresident tuition, application fees, and other miscellaneous fees)

2004/05	Amount	Average Cost per	
		FTE Student	Percentage
Total Support Cost	\$4,486,256,000	\$12,591	100%
• State Appropriation	2,985,874,000	8,380	66%
• Student Fee Support <sup>1</sup>	1,130,641,000	3,173	24%
• Reimbursements <sup>2</sup>	369,741,000	1,038	10%

<sup>1</sup>Student fee support represents campus 2007/08 final budget submitted State University Fee revenue.

<sup>2</sup>The other income and reimbursements represent campus other fee 2007/08 final budget revenues submitted, as well as reimbursements in the CSU Operating Fund.

The average CSU 2007/08 academic year, resident, undergraduate student fees required to apply to, enroll in, or attend the university is \$3,521. However, the costs paid by individual students will vary depending on campus, program, and whether a student is part-time, full-time, resident, or nonresident.

## Refund of Fees Including Nonresident Tuition

Regulations governing the refund of mandatory fees, including nonresident tuition, for students enrolling at the California State University are included in §41802 of Title 5, California Code of Regulations. For purposes of the refund policy, mandatory fees are defined as those systemwide fees and campus fees that are required to be paid in order to enroll in state-supported academic programs at the California State University. Refunds of fees and tuition charges for self-support programs at the California State University (courses offered through extended learning) are governed by a separate policy established by the University.

In order to receive a full refund of mandatory fees, including non-resident tuition, a student must cancel registration or drop all courses prior to the first day of instruction for the term. Information on procedures and deadlines for cancelling registration are available in the *Class Schedule*.

For state-supported semesters, quarters and non-standard terms or courses of four weeks or more, a student who withdraws during the term in accordance with the university's established procedures will receive a refund of mandatory fees, including nonresident tuition, based on the portion of the term during which the student was enrolled. No student withdrawing after the 60 percent point in the term will be entitled to a refund of any mandatory fees or nonresident tuition. Students will also receive a refund of mandatory fees, including nonresident tuition under the following circumstances:

- The tuition and mandatory fees were assessed or collected in error;
- The course for which the tuition and mandatory fees were assessed or collected was cancelled by the university;
- The university makes a delayed decision that the student was not eligible to enroll in the term for which the mandatory fees were assessed and collected and the delayed decision was not due to incomplete or inaccurate information provided by the student;
- The student was activated for compulsory military service.

Students who are not entitled to a refund as described above may petition the university for a refund demonstrating exceptional circumstances and the chief financial officer of the university or designee may authorize a refund if he or she determines that the fees and tuition were not earned by the university.

Information concerning any aspect of the refund of fees may be obtained from the Accounting Office.

## Campus Safety Report

California State University, San Bernardino publishes a "Campus Safety Report" each September 1st in compliance with federal law. The report contains information on campus safety services, policies, procedures and recent crime statistics. This report is available through the university main web page index listing "Campus Safety Report" and copies may be obtained from the Department of Public Safety.

## Procedure for Establishment or Abolishment of a Student Body Fee

The law governing the California State University provides that fees defined as mandatory, such as a student body association fee and a student body center fee, may be established. A student body association fee must be established upon a favorable vote of two-thirds of the students voting in an election held for this purpose (Education Code Section 89300). A student body center fee may be established only after a fee referendum is held which approves by a two-thirds favorable vote the establishment of the fee (Education Code, Section 89304). The student body fee was established at California State University, San Bernardino by student referendum. The campus president may adjust the student body association fee only after the fee adjustment has been approved by a majority of students voting in a referendum established for that purpose (Education Code, Section 89300). The required fee shall be subject to referendum at any time upon the presentation of a petition to the campus president containing the signatures of 10 percent of the regularly enrolled students at the University. Once bonds are issued, authority to set and adjust student body center fees is governed by provisions of the State University Revenue Bond Act of 1947 including, but not limited to, Education Code Sections 90012, 90027, and 90068. Student body association fees support a variety of cultural and recreational programs, childcare centers, and special student support programs.

The process to establish and adjust other campus-based mandatory fees requires consideration by the campus fee advisory committee and a student referendum. The campus President may use

alternative consultation mechanisms if he/she determines that a referendum is not the best mechanism to achieve appropriate and meaningful consultation. Results of the referendum and the fee committee review are advisory to the campus President. The president may adjust campus-based mandatory fees, but must request the Chancellor to establish a new mandatory fee.

For more information or questions, please contact Rosa H. Renaud, Financial Manager, Financing and Treasury in the CSU Chancellor's Office, at (562) 981-4570 or rrenaud@calstate.edu.

### Eligibility Index

The eligibility index (see below) is the combination of the high school grade-point average and the score on either the American College Test (ACT) or the Scholastic Aptitude Test (SAT). For this purpose, the university computes the grade-point average on the final three years of high school studies, excluding physical education and military science, and uses bonus points for certain honors courses. CSU may offer early, provisional admission based on work completed through the junior year of high school and planned for the senior year.

Students may calculate the index by multiplying their grade-point average by 800 and adding their total score on the SAT I. Or, if they took the ACT, multiply their grade-point average by 200 and add ten times the composite score from the ACT. California high school graduates (or legal residents of California for tuition purposes) need a minimum index of 2900 using the SAT I or 694 using the ACT; the table below shows the combinations of test scores and averages required. Students who neither graduated from a California high school nor are a resident of California for tuition purposes need a minimum index of 3502 (SAT I) or 842 or above (ACT).

Applicants with grade-point averages above 3.00 (3.61 for non-residents) are exempt from the test requirements.

### Changes in Rules and Policies

Although every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules and policies change from time to time

and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the Legislature, rules and policies adopted by the Board of Trustees of the California State University, by the chancellor or designee of the California State University, or by the president or designee of the campus. It is not possible in a publication of this size to include all of the rules, policies and other information that pertains to students, the institution and the California State University. More current or complete information may be obtained from the appropriate department, college or administrative office.

Nothing in this catalog shall be construed, operate as, or have the effect of an abridgement or a limitation of any rights, powers or privileges of the Board of Trustees of the California State University, the chancellor of the California State University or the president of the campus. The trustees, the chancellor and the president are authorized by law to adopt, amend or repeal rules and policies which apply to students. This catalog does not constitute a contract or the terms and conditions of a contract between the student and the institution or the California State University. The relationship of the student to the institution is one governed by statute, rules and policy adopted by the Legislature, the trustees, the chancellor, the president and their duly authorized designees.

### Recommendations on Attire for Students in On-campus Simulation or Clinical Supervision Classes

Departments or programs may provide recommendations for professional attire in on-campus simulation or clinical supervision classes provided:

1. Such standards for attire are established by the Professional Association affiliated with that department or program;
2. Recommendations are communicated to students at the time of admission to the professional program and are further delineated in the course syllabi for the simulation or clinical supervision courses;

Eligibility Index Table for California High School Graduates or Residents of California

GPA	ACT Score	SAT Score	GPA	ACT Score	SAT Score	GPA	ACT Score	SAT Score	GPA	ACT Score	SAT Score	GPA	ACT Score	SAT Score
3.00 and above	qualifies		2.81	14	660	2.60	18	820	2.39	22	990	2.18	26	1160
with any score			2.80	14	660	2.59	18	830	2.38	22	1000	2.17	26	1170
			2.79	14	670	2.58	18	840	2.37	22	1010	2.16	27	1180
2.99	10	510	2.78	14	680	2.57	18	850	2.36	23	1020	2.15	27	1180
2.98	10	520	2.77	14	690	2.56	19	860	2.35	23	1020	2.14	27	1190
2.97	10	530	2.76	15	700	2.55	19	860	2.34	23	1030	2.13	27	1200
2.96	11	540	2.75	15	700	2.54	19	870	2.33	23	1040	2.12	27	1210
2.95	11	540	2.74	15	710	2.53	19	880	2.32	23	1050	2.11	28	1220
2.94	11	550	2.73	15	720	2.52	19	890	2.31	24	1060	2.10	28	1220
2.93	11	560	2.72	15	730	2.51	20	900	2.30	24	1060	2.09	28	1230
2.92	11	570	2.71	16	740	2.50	20	900	2.29	24	1070	2.08	28	1240
2.91	12	580	2.70	16	740	2.49	20	910	2.28	24	1080	2.07	28	1250
2.90	12	580	2.69	16	750	2.48	20	920	2.27	24	1090	2.06	29	1260
2.89	12	590	2.68	16	760	2.47	20	930	2.26	25	1100	2.05	29	1260
2.88	12	600	2.67	16	770	2.46	21	940	2.25	25	1100	2.04	29	1270
2.87	12	610	2.66	17	780	2.45	21	940	2.24	25	1110	2.03	29	1280
2.86	13	620	2.65	17	780	2.44	21	950	2.23	25	1120	2.02	29	1290
2.85	13	620	2.64	17	790	2.43	21	960	2.22	25	1130	2.01	30	1300
2.84	13	630	2.63	17	800	2.42	21	970	2.21	26	1140	2.00	30	1300
2.83	13	640	2.62	17	810	2.41	22	980	2.20	26	1140	Below 2.00 does not qualify for regular admission		
2.82	13	650	2.61	18	820	2.40	22	980	2.19	26	1150			



3. All such recommendations for attire in demonstration or clinical supervision courses on campus provide reasonable accommodations for traditional ethnic, cultural or religious attire.

## **Nondiscrimination Policy**

### **Race, Color, and National Origin**

The California State University complies with the requirements of Title VI and Title VII of the Civil Rights Act of 1964 as well as other applicable federal and state laws prohibiting discrimination. No person shall, on the basis of race, color, or national origin be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in any program of the California State University.

### **Disability**

The California State University does not discriminate on the basis of disability in admission or access to, or treatment or employment in, its programs and activities. Sections 504 and 508 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990 and various other state laws prohibit such discrimination. Dr. Frank Rincón, vice president for student services has been designated to coordinate the efforts of compliance with all relevant disability laws. Inquiries concerning compliance may be addressed to Dr. Rincon at 5500 University Parkway, San Bernardino, CA 92407, (909) 537-5000.

### **Sex/Gender**

The California State University does not discriminate on the basis of sex, gender or sexual orientation in the educational programs or activities it conducts. Title IX of the Education Amendments of 1972, and certain other federal and state laws prohibit discrimination on these bases in education programs and activities operated by California State University, San Bernardino. Such programs and activities include admission of students and employment. Inquiries concerning the application of these laws to programs and activities of California State University, San Bernardino may be referred to Dale T. West, personnel officer, the campus officer assigned the administrative responsibility of reviewing such matters or to the Regional Director of the Office of Civil Rights, Region IX, 50 United Nations Plaza, Room 239, San Francisco, CA 94102.

The California State University is committed to providing equal opportunities to male and female CSU students in all campus programs, including intercollegiate athletics.

### **Sexual Harassment**

It is the policy of California State University, San Bernardino to maintain a working and learning environment free from sexual harassment of its students, employees and those who apply for student and employee status. Questions regarding sexual harassment should be addressed to Dale T. West, personnel officer.

### **Filing a Discrimination Complaint by a Student**

Information and filing forms concerning a discrimination complaint against the university and its employees by a student may be obtained from the Office of the Vice President for Student Affairs, UH-231; the Women's Resource Center, the Adult Re-entry Center, the Cross-Cultural Center, the Vice President's offices, and college Dean's offices. A discrimination complaint must be filed within no more than 40 calendar days after the student learned or reasonably should have learned of the occurrence of the complaint event. This policy and filing forms can also be accessed at <http://studentaffairs.csusb.edu/policies.html>.

## **Student Email Policy**

The University intends to replace many of the letters sent to students via the U.S. Postal Service with email communications. As a result, it is strongly recommended that students check their email accounts daily. The consequences of not checking email are the same as those for not checking U.S. Postal mailbox. Some of these consequences include missing payment deadlines, missing registration deadlines, missing immunization requirements, missing out on opportunities for financial aid, and missing requirements and deadlines for graduation.

Students are responsible for the consequences of not reading university-related communications sent to their email account. Students have the responsibility to recognize that certain communications may be time-critical. Errors in forwarding email to a personal email address or failure to read emails regularly are not acceptable reasons for missing university deadlines.

Students have the responsibility to clean their email accounts and avoid emails being rejected due to limited space in their account. The policy can be accessed at <http://policies.csusb.edu/email.htm>.



## California Articulation Number (CAN)

The California Articulation Number (CAN) System identifies many transferable, lower division, major preparation courses commonly taught on California college and university campuses.

The system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN courses on another participating campus. For example: CAN ECON 2 on one campus will be accepted for CAN ECON 2 on every other participating campus that has also qualified CAN ECON 2. Each campus retains its own numbering system, but adds the CAN designation parenthetically in its publications.

Check with counseling offices, departmental offices, or articulation officers for current listings of CAN qualified courses. A "CAN CATALOG" listing campuses and courses is available on the Internet at <http://www.cansystem.org>.

### CSU, SAN BERNARDINO

CAN NUMBER	COURSE
CAN AJ 2	CJUS 101
CAN AJ 4	CJUS 102
CAN AJ 8	CJUS 106
CAN ANTH 2	ANTH 100
CAN ANTH 4	ANTH 102
CAN ART 2	ART 221
CAN ART 4	ART 223
CAN ART 6	ART 254
CAN ART 8	ART 122
CAN ART 10	ART 235
CAN ART 12	ART 240
CAN ART 14	ART 120
CAN ART 16	ART 121
CAN ART 18	ART 290
CAN ART 20	ART 260
CAN BIOL 14	BIOL 220
CAN BIOL SEQ A	BIOL 200 + 201 + 202
CAN BIOL SEQ B	BIOL 223 + 224
CAN BUS 8	MGMT 230
CAN CHEM SEQ A	CHEM 215 + 216
CAN CSCI 4	CSCI 240
CAN CSCI 6	CSCI 125
CAN CSCI 22	CSCI 201
CAN CSCI 24	CSCI 202
CAN CSCI 26	MATH 272
CAN DRAM 6	TA 253
CAN DRAM 8	TA 251
CAN DRAM 10	TA 232
CAN DRAM 12	TA 239
CAN DRAM 14	TA 131
CAN DRAM 18	TA 260
CAN DRAM 20	TA 245
CAN DRAM 22	TA 252
CAN ECON 2	ECON 202
CAN ECON 4	ECON 200
CAN ENGL 2	ENG 101
CAN ENGL SEQ B	ENG 210 + 211 + 212
CAN FREN SEQ A	FREN 101 + 102 + 150
CAN GEOG 4	GEOG 100
CAN GEOG 6	GEOG 103
CAN GEOL 2	GEOL 101
CAN GEOL 4	GEOL 250
CAN GER SEQ A	GERM 101 + 102 + 150
CAN GOVT 2	PSCI 203
CAN HIST 8	HIST 200
CAN HIST 10	HIST 201
CAN HIST SEQ B	HIST 200 + 201

CAN HIST SEQ C	HIST 140 + 142 + 144
CAN JOUR 2	COMM 240
CAN KINE/PE 8	KINE 200
CAN MATH 2	MATH 115
CAN MATH 10	MATH 110
CAN MATH 16	MATH 120
CAN MATH 24	MATH 270
CAN MATH SEQ B	MATH 211 + 212 + 213
CAN PHIL 2	PHIL 190
CAN PHYS 8	PHYS 221
CAN PHYS 12	PHYS 222
CAN PHYS SEQ C	PHYS 221 + 222 + 223 + 224 + 228
CAN PSY 2	PSYC 100
CAN PSY 6	PSYC 210
CAN SOC 2	SOC 100
CAN SPAN SEQ A	SPAN 101 + 102 + 150
CAN SPCH 4	COMM 120
CAN SPCH 6	COMM 180
CAN SPCH 8	COMM 225
CAN SPCH 10	COMM 221

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